

r imediyeL mnip ri

pi si HdM

AhNb srK

1) loN nnb

loN hIbsi miAolbn chi-c kymrMgi mmZdgi hIn sijiNndn hIbdi zZndn lKlbni> AdMnmK Aoldns zsi fUbd msigi mrMd hIKp wh kygi pUSM pib zMdn lri> whsiZ Asigi cP-cb pUSM pib zMdrbs miAolbn whsiZ Adgi pUSM pinnb hoTndbdi ntTe> loN krMn hIKpge nTt rg Aol rKSibge hIbsi pHoKnB hoTnbd AcMbb Aol rbs, ArNbb Aol rbs, HiAri kymrM pHoKtn loNgi hIKfM tKnB hoTnrMmi> HiArisiZ Adgi mnZdgi Srd SngTtn mSd sMn nnri> mSol siZ Addi:-

(1) bu-wU HiAri < HiAri Asib sigTp kZbgi mTt miAolbgi loN Asi mhlsigi ljrMb mSol siZgi mt tMbdgi Aol rKpni hIbsini> mSol gi mTt loNd yUrib wh kymrMg mhlsigi mSol siZg mri In hIbsini> SdM Aoln mSoln kKk (koKiL), krU (kwK) AsinciZb lIiski wh Amdi hInciZbn SoZbgi mSol siZ Asi piri> Asids nTtn mSoln hIribdi Hlnzdgi sdNbsiZn mn-mn HeZnrib s Adgi msK tKnbgidmK soldn s Adn SoZbdgi mt tMIMgni hIbsini> Adn SoNHoKsiZ Asi AsMn mhlsigi mSol siZgi mt tMbdgi Aol rKpni hIbsi mSol gi Hjbni>

HiAri Asigi AwTp kymrM l> msigi Swldgi cUb AwTpd msin miAolbgi vokeL AorgN hIbdi w zZnbgi kyTsiZn krMn leZ-AoTtn SoNHoKsiZ Asi pHoKIKpge hIbd tKp zMde> loN SdiZmKki SoNHoKsiZ hIbdi vUAL Amdi koNsoneNTsiZ Asigi lb yb ydbgi niyM Am soldn l> msigi niyMsiZ Asi mSol siZgi mt tMbdgi Aol rKp wh pMnmKt lrmgni hIbdi Hjniz l Aolde>

(2) p-p HiAri < HiAri Asib Hjb miAol siZgi wSLd loN hIbsi miAolbn mSol gi Anizb, ApMb, Awb, nz lbnciZb Ad fUrKp mtMd md foZdoKtn kPp, lUb, noKp, sUbnciZb tIbd ShIdn SoNHoK Sr HoKSibdgi loN hIbsi Aol rKSibni hIbsini> mSoln hIribdi miAolbn lhn-hNn sijiNnSib whsiZsi INtrjeKsNgMb zKt Aolrmgni hIbsini>

HiAri Asin UTlibsi loNgi mCK Srt ni> w zZnbgi kyTsiZn leZ-AoTtn mt krMn SoNHoK pHoKtn loN Aoln sijiNnrKlibno hIbdi UTp zMde>

(3) diZ-doZ HiAri < HiAri Asigi mtZINndi miAolbn tri-Urib pMnmK Asigi mmi Am soldnmK miAolbgi breNd tI> mdn kZsi SiZbgM yrbdgi kris hoTnrb tIdn breNd msn wh Aoln heKt AonHoKc> mddgi whsiZ Asi

AoI rKpni> msidi Hjb ydb HiArini>

(4) **yo-he-ho HiAri** < HiAri Asi **nöyr** kIb Amn hIdoKIMbni> HiAri Asigi mtZINndi miAoIbn pNn HbKnciZb smiNnb nTtrg myM cdn p0TIMnciZb HZmiNnb mtMd crZnb Amdi nZsswr SHiZ-HiZdn HZgTnb h0TnbnciZbd H0KIKp mSoL Srdgi IoN Asi AoI rKSibni hIbsini> AsigMb mSoLsiZ Adn vUAL AmsZ koNsoneNT yUri hIbsi mSoIgi mTni>

HiAri Asigi mtZINn IoNd sijiNnb whsiZsi AhNbddi kmNd hIbdi yH pib zKtmK AoI rMmi> HiAri Asid Iib yb Srdi yUri> mdgi mnZd mrAoIbdi - AhNbd, IoN hIbsi miAoIbn pNn lmiNnb hI rKpdgi I rKpni hIbsini> Adg mHd, vUAL Amdi koNsoneNT AoI rKpgi mtZ Asini>

(5) **jescr HiAri** < HiAri Asib hIdoKIMb kZbgi mTt IoN hIbsi Itrizd miAoIbn IgiT sijiNnrMmi hIbsini> mddgi mS trKtn IoN hIbsi AoI rKpni> msigi SdM AoIn mSoIn AmeriNdiyn hIbdi Amerikd Irib red-INdiynsiZgi sIN leZgljb piri>

miAoIbgi breNd Irib IoNgi mFMg IgiTki mFMg Ani Asi yMn nKnn I hIbsidi AcMbni> Adn w zZb mtMd ST-s sijiNndn IgiT wr yUSidbdi nTte> AdM AoInmK IgiTn IoNdgi hLIi hIbsidi hImNb H0Kkni> HiAri Asib sigTp kZbn hI ri mddi IoN hIbsi Srist p0Kkdb chi 3500 mKki mmZd II AoIn yeKtn Ibdgi AoI Sibni> HiAri Asi Hjb Sr wTli hIn IIn>

(6) **myjikeL HiAri** < HiAri Asib hIdoKIMbsiZgi mT mtZINndi IoN hIbsi Ildgi p0KIKpni> miAoIbn w zZb htrizdgi hIn Is sKpdi hrMle hIbsi mSoIgi Hjbni> HiAri Asib hIdoKIMbdi **AoTto jesprsN** hIb denis skolr Adni> mhKki mTt IoN Asi AhNbd hIdoKpdwb, yMn sZbwhp reZsiZn AoI rMmi Adg md Is AoIn sKtn zZnrMmi>

(7) **kNteK HiAri** < **ji: rivij** hIb AMstrdMgi profesr Amn HiAri Asi hIdoKIMbni> miAoIbn smjd pNn toTn-tiNndn hiZmiNnbgi drkr AoI rKpdgi toZN toZNb HK(s tej) kymrMd IoN hIbsi AoI rKSibni> IhN-hNb HKt HMIbsi kNteK sUNdni> msigi HK nTtrg tZkK Asiddi HeZnb, ynbgi mSoL Adgi mteZn I-pU Snbni> mtZ Asidi s-zn SoZbgMbni hIbsini> mHd **krI** hIbdi IU-SoZb, kPpnciZb Asigi HK Asini> tZkK Asiddi pU Asi hI rP mA0Z tn fUnb zMIKle hIbsini> msigi SdM AoIn mhKn UceKnciZb jibsiZgi mcsiZn SdoZhib HeZnrKp nTtrg ArM-SI rZbnciZb p0KIKp mtMd SoZbdgMbni hI ri> msigi mHd **koL** hIbdi kInbgi HK Ad yI rKSi> msiddi miAoIbn ApMbnciZb

wSL ky f0Zd0Kp zMbgi sKti Ad lre> msigi mHd **l0N** AmsZ **ls** p0KIKI
hIbsini> mddgi wh Amdi whpreZsiZ A0l rKSibni hIbsi rivijgi Hjbni>

rivijn yMn sNd0Kn, tZkK toZN-toZNb kymK UTtn l0Ngi h0rKpgi mrMd
mT kymrM pidns, w zZnbgi kyTsiZn mt0 krMn leZ-A0Ttn SoNH0KsiZ Asi
pH0KIKpge hIbdgi mtZddi krimTt pLIMde> Adn HiAri Asigis AwTp
kymrM l>

mHKt pirib AsidnTtn At HiAri ky Ams lri> Adb mS0l siZ Ad mHKki
HiArisiZ Asigi mrKtgi Amg nKnn heKt l> Adts nTtn lrib HiArisiZ
Asi AmTts mpZ fde>

mHKt nnSrib HiArisiZ Asi l0N krMn A0l rKSibge hIb Adgi mrMd nbnbi>
l0N krino hIb ddi msin tKp zMde AmsZ nnbs t0de> h0jiK AmK l0N hIbsi
krino hIbd nndn yeZsi> l0Nb nnb kZbn toZN-toZNb mA0Z kymrMd l0Nb
msK tKn b h0Tn> mrM Asidgi mS0ln "**l0N hIbsi niyM kyn pNdn seMdns
Asi A0lgni hIb AkKn bdi ltb, SoNH0KsiZn SdM A0l b, miA0lbn mS0lgi
mrKt l-pU cTnnbgidmK sijiNnrib Ah0Zb nIb hnbi Adni**" hIn hI>
Ad A0lrbdi l0N hIbsi krino hIbd SnnbgidmK mHKt pLlib wfMsiZ Asi
AmmMt A0ln l0STtn yeZb tbni>

AhNbd, **l0N hIbsi niyMni** - msid niyM hIribsi sisteM hIb Adni> l0N
Am A0l b t r bdi mdgi niyM Sr s0ldn lgni> l0N SdiZmKki niyM Ani l> Amn
SoNH0Kki niyMni Adg AtoPpdn ArHgi niyMni> l0N SdiZmKt SoNH0Kki AkKn b
msiZ l AmsZ mS0l siZ Asin yUb yb-ydbgi AkKn b niyMs l> SdM A0ln hI r b d
mt l0Ngi SoNH0K SdiZmK AroIbd l b zMde> nTtrg lIis l0Nd t0bgMn Ah0bd
SoNH0K yMn tPsiNnde> msi mt l0Ngi SoNH0Kki niyMgi mtZINn t0ribni> mt0
AsMn SoNH0Kki niyMsiZ Asi kIhNdn leZsiLlg ArH ceNb wh A0l rKI>
AsigMb ArH ceNb whsiZ Asi pNsiNdn mpZfb ArH Am f0Zd0Kn b h0TnrKp
mtMds ArHgi niyM Ad kIb yde> SdM A0ln '**sLn hwI cre**' hIbdi cMmi hIn
l0ngni> Adb '**hwIn sL cre**' hIrbdi ArH Ad kIre> mrM Asin l0N Am A0l b
t r bdi niyM Ani Asi kIb yde>

l0N hIbsigi Asi A0lgni hIb AkKn b mA0Z Am lroI -msin tKlibdi l0N
hIbsi yndn cTnSibdgi A0l Sibni> SoNH0KsiZn seMd n A0l rKlib whsiZ Asig
mS0ln mhT siLlib p0T nTtrg HbK-H0A0ZsiZ Asig Inribmri Asi yndn SnSibdgi
kInSibni> Adn whsiZg mS0ln ShLlibsiZ Adggi mrKt ArePp mri Am lte>
SdM A0ln hI r b d zsi AS0ln **U** hIn Snrib Asi **U** k0rMddn lIiskMn **t ri** hIn

kIrMIbdi msib **t ri** hIn SnrMgni> mt AsMn z si ASoln **tMb** hIn kInrib Asi
mm mpn **tMb** kIrMddn **cUb** kIrMIbdi soldn mb **cUb** hIn SnrMgni> Adndi
mmiZsiZ hIbdi whsiZ Asig poTnTt rg HbK-HnnciZbg Inrib mri Asi AkKnB
Asi Aolgni hIb mAoZ Am l te>

IoN hIbsi soldn zZnrib SoNHoKsiZgi Aolgni - msin hIribdi IoN
SdiZmKki SoNHoK lgni AMsZ md soldn zZngni>

zZnb trbdi mdd AzZb Amdi Atb lgni> Adg Ib hIbsidi IoN nTte,
msidi cMngi miTn Ub SdMn ced nTt rg At-At Innbgi pMbsiZd yeKtn
UTptni> toZN-toZnb myeKn Idns mt IoN Asi mt IoN AdM Aoln lgni>

IoN hIbsi miAolbn zZnrib Adtni - miAolbn zZnrib Amdi mdgi mteZn
mSoln Amg Amg Sndn pU fUnb zMlib Asib IoNni hIn lIn> At jibsiZ hIbdi
s-zgi l-pU cTnbgi mAoZsiZ Asidi IoN nTte> msidi mtZd dij IN ficr Aof
leZglj nnb mtMd sgl n tKli>

IoNdi l-pU cTnnbni - IoNgi mteZn miAolbn mSolgi Anizb ApMb, Awb,
nZzIb, nZzI tb AsinciZb pMnmK foZdoKp zMmi> msigi mteZn miAolbn
Amg Amg mteZ pZndn AwT-Ap meNSTmiNndn nZsinn lmiNnb zMhLIi>

IoNdi AhoZb nI - IoN hIbsi AhoZb nI> mtM-mtMgi mtZINn miAolbn
mSolgi wSL, pKniZ cUSTIKpg IoInn nZzIn hiZb pMIKp Amdi mSolgi
ApMbgi zMS l tbn, AnI-AnIb AhoZb ky IKpdn IoNds cHeZ pi> IoInn AnI-
AnIb wh ky HoKIKI Amdi AtOPp IoNdg pr l> IoN hIbsi AhoZb nI gdbni>
AhoZb l trb IoNb **Asib IoN** hIbdi **deT leZglj** hIn Sn>

IoN hIbsi hnbini hIbdi hebiTni - IoN hIbsidi hnbini> poKpd zIrib
jpni j mc Am mniprd prKlg yoKIbdi jpni j zZl ol soldn mt IoN zZIKkni>
krigMb hIrib AzZ AdmK jpNd AdM HMIMl bdi jpni j Aoln zZIMgni> Asit s
nTtn IoNgi hnbI Asi nIrizdn heLIi> Adn AzZsiZn AhLsiZdgi heNn Hn IoN
hb zMmi>

IoN hIbsi miAolbn zZnrib Asitni, At jibsiZgi mroLdi IoN nTte hIb mHKt
pNSre> mtZ Asid **crIs hokeT** hIb liZgl sT-AeNHropolojist Adn hIdoKIMb
ki proprtij nTt rg **dij IN ficr Aof leZglj** hIbd nnbgi drkr Aol> mhKn
pirMlib ficsiZ Asi miAolbgi IoNddmK l> At jibsiZgi mroNddi yUde> dij IN
ficr 7 (t reT) Ad mSd nnri> mSol siZ Addi -

dyeliti < dyeliti hIbdi dyeLdgi IKpni> msin tKlibdi Ani-Ani cTp
nTt rg Ani-Ani Ib hIbni> IoN hIbsid SoNHoKki niyM Amg ArHgi niyM Amg

Ani Asi tTn-Hnb sKy yde> krigMb niyM Ani Asigi mnZdgi Am heK kIbd md
IoN AoIb yde> SoNHoKsiZ Asigi tInb yb-ydb, ArOIbd Ib zMb-zMdb, Amdi
ArH HoKp srKAm AoInnb leZsNbd AHIZbnciZb kymrM l> SdM AoIn **cK** hIbdi
ArH HoKp Am AoI Adb **kc** hIrbdi kris ShNb zMdre> msi SoNHoKki niyM
Ad zKtbdgini> mtO AsMn **cI Amb INsZ cK** hIrbdi ArHsiZ Ad pNsiNb
ydre> mrM Adn msis IoN AoIdre>

prdKtibiti < IoN hIbsid miAoIbn AmKt tSidrib nTtrg zZnSidrib
wh kymK hPtOK-hPciN tOdn mpZ-fb wSL Am foZdOKtn sijiNnb yl> md
trib mi Adns AdM Sb zMmi> msigi mAoZ Asi At jib AyMbg mroNd lte>

Arbitrrines < pOT, HbK-HnnciZbsiZ Asig hIbdi AobjeKTsiZ Asig
mSoIgi mhT siLlib whsiZ Asig AkKnB, Asini hIb, mri Am lte> ynb,
cTnbi Amgi mSd hIn-kInbni>

Intrcenjibiliti < miAoIb hIbsi AzZbs, Atbs AoI> Amn AmK zZb,
Amn AmK SMb hIbdi AoNHZ-AoNsiN tOdn zZnb Amdi tnbb INtrcenjibiliti
hIn>

displesmeNT < IoN hIbsidi hOjIK-hOjIK SdK-SdKt HoKlib, HeZnrib
AdtmK zZngni hIbsigi ArePp lte> hOSrb ky, AtOPp mfMd HoKlib ky,
tZd AoIrKkdb ky Amdi mfM mtMgi mtZINn zZnrib wfM hIbdi hirM Ads
heKt AoNHoKtn zZnb ygdbni>

spisiyelIjesN < miAoIbn w zZn-zZn HbK AdM tOb zMmi> tOrib HbK
Adg mri sKI-Indb w kys zZnb zMmi> AsigMb HbK tIn-tIn w zZnb zMbsin
tKlibdi w zZliz mtMd miAoIbgi w zZnbgi kyTsiZ AsitmK sijiNn> At
AorgN pMnmK chNdbS yl> AsigMb mAoZ Asib spisiyelIjesN hIn Sn>

kLcreL trNsmisN: miAoIbn mp-mp Amdi mhKki AkOIbd IribsiZ Adgi
mtO tMb dmSoIn zZnrib IoN Ads mtO tMdn zZIKpni> mtO tMb mtMd sijiNngdb
mCKsiZ hIbdi mi Amd l fM HoKp pMnmK Addi msd pOKpdgi yUrKI> msid
mAoZ AniSK l> AhNbg mAoZn mhKn mg nKnbsiZdgi mtO tMb Adni> msib
ImitesN hIn lIn Adg Anisb mAoZn mhKn mgi AkOIbd IribsiZ Addgi
lOsiLrib srKsiZ Adbni> msibn **kLcr** hIn lIn> Ani Asib pNn **hokeTn**
kLcreL trNsmisN hIbni>

mHKt pirib hokeTn pirMb ficrsiZ Asid nTtn Sr Ams Iri> mSoIsiZ
Addi **diskriTnes** hIbdi IoNdi mteK-mteKsiZn pNsiLIg AoIbni> mrMdi IoN
Amd fonIM, mor fiM hIn Snb mtT-mtT AoIn HgIb, HdTp yb srKsiZ l> mSoIsiZ

Asi sijiNndn sMjiNnrg loN Aol> loN hIbsin loN msdmKki mrMd Snn-nnb mtMd loNdmK sijiNnb ygdbni> msib loNgi **rifleKsiP** hIb mgN Adni hIn loN> loN hIbsi krigMb Sr ShNbni hIbdi msigi ArH l> msin tKlibdi loN hIbsin krigMb Amgi mhT siNbni> msi lCM-cMb SoNHoK Srn mSoL HoKhNb nTt rg sUdn lUb nTte> msib **simNtisiti** hIn Sn> loN hIbsi AcMb zZbddmK sijiNngni hIb lte> Aoldb zZb mtMds sijiNnb yl, sis-sijiNn> msib **privrikesN** hIn Sn> mHKt pirib mgNsiZ Asi miAolbgi loNddmK sn Ub fgni> mrM Asidgi loN hIbsi miAolbgi hInribni>

AtPp wfM Amn loN nnb mtMd msig **Ibg** SeNnb Asis Sb yMn mr Aol> loN hIb trbdi mHKt hISibgMn miAolbn w zZnbg kyTsiZ sijiNndn Amg Amg zZn-sKnrib Adbni> sMn hIrbd ASol miAolbn kZIP kZIPki Aolb mpZ Aolb hIbdi loNH (dlleK) nTtb Amg Amg l-pU fUnb yb zZlib mAoZ Adtb loNni hIn lgni> Ib hIbsin UpI AmSKni> UpI Asigi mteZn ASoln loNgi mhT siNdn sijiNn> loNdi hKHeZnn Ib kNddmK sijiNn> Adg krigMb ArPpd Ib mi AMd krigMb Sr hInizb nTt rg foZdoKniZb mtMddi loNgi mhT siNdn sijiNnb yb yeKp-SoTp, hKpnciZb UpI siZgi mteZ lll> AsigMn yeKp-SoTp, hKpnciZbd sijiNnrib Adn SoNHoKsiZ Adgi mhT siNdn Atb nTt rg AUb misiZd ShNb zMhLli> Adndi Ib hIbsidi miTn Ub fb SoNHoKsiZ nTt rg SoNHoKsiZn pNsiNb whnciZbb mhT siNdn ShNb zMb mAoZ Am Aol re> msidi miTn Ub loNgi mhT siNb mAoZ Am Aol re> mrM Asidgi Ib hIbsi loN nTte loNb miTn Ub UpI Amn loNgi mhT siNdn sijiNnb yb mAoZ Adbni hInribni>

nnb

- 1> loNgi hrKpgi HiArisiZ Ad kri krino? mSolgi mrMd sMlPn ly>
- 2> loNgi HiArisiZ Adgi mnZdgi ASb AhMSKki mrMd l rKU> HiArisiZ Ad Hjb ybr?
- 3> loN hIbsi krino?
- 4> loN hIbsi niyMni hIbsi sIgTtn niyMsiZ Adgi mrMd ly>
- 5> loNgi dijIN fiersiZ Ad kri krino? sMn l rKU>
- 6> miAolbgi loNtb loNni hIrib krigino? nnrKU>

* * * * *

2) vUAL

vUAL hI rg ASoIn SoNHoKsiZ Ad hIdoKIKpd nZsswrgi SoZcTki priZ Add krigMb mSL AmTtgi cPsiNb, SjiNb nTtrg ApNb Amdi AHiZbnciZb AmTt pidb Adb Sn> mt loNd vUAL 6 (trK) l> mSoI siZ Addi **I, Ae, A, A, A** AmsZ **Uni**>

vUAL SoNHoKsiZ Asi mSoI b hIdoKIKpd mtMd Ib **I** Amdi **ciNbNgi** fivMdgi yeZlg toZN-toZNn msK mmiZ HoLli> AsMn vUALb SIdoKpgi mAoZ Asib **vUAL kIsifikesNgi krI teriy** hIn Sn> AsigMb krI teriy Asi **AhMSKni**> mSoI siZ Addi -

1> SoNHoK Ad hIdoKIKpd lgi krMb srKn Swldgi heNn wZn lbge?

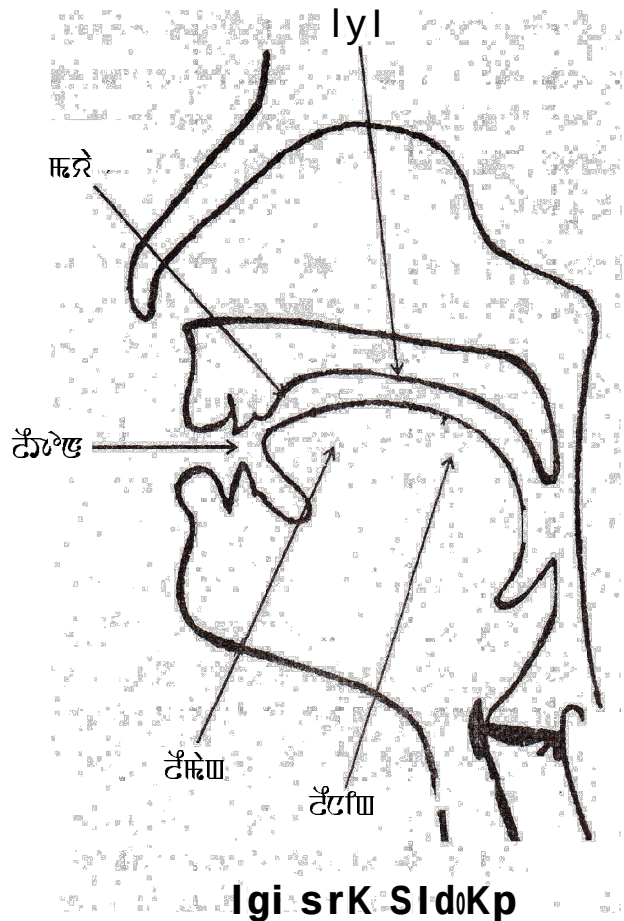
2> SoNHoK Ad hIdoKIKpd l Asi kyM wZn HZgTpge (HZgTpgi cZ)?

3> SoNHoK Ad hIdoKpd ciNbNgi

mAoZ mtI krMn tlbge?

(1) AhNbgi mAoZdgi yeZdn vUALsiZ Asi mSL AhM HoKn SIdoKI> msigimSd **I** Asi srKAhM HoKn SIdoKI> mddi - **ImZ** hIbdi frNT Aof di t nTtrg **frNT, lyI** hIbdi seNtr Aof di t nTtrg **seNtreL** AmsZ **Iniz** hIbdi beK Aof di t nTtrg **beK** hIbsini>

lgi mmZ Hb srK hIbdi ImZn HZgTtn wZn lrg hIdoKIKpd vUALgi SoNHoKp **frNT vUAL** hIn Sn> mt loNgi **I** AmsZ **Ae** Ani Asi hIdoKIKpd mtMd lgi mmZHb srKn Swldgi heNn wZn HZgTli> mrM Asidgi mSoI Anisib frNT vUALni



1> msid sijiNnrib myeKsiZ Asidi sPntgi SoNHoKsiZ Adgi mhT siNdn miTn Ub SdMn UTptni> vUAL hIbdi myeK nTte SoNHoKni>

hIn>

Igi myIHb srK hIbdi lyIn HZgTlg Swldgi wZn lrg hIdoKIKp vUALgi SoNHoKp **seNt reL vUAL** hIn Sn> mt loNgi **A** AmsZ **A** Ani Asi hIdoKIKp mtMd Igi myIHb srKn Swldgi heNn wZn HZgTtn l> mrM Asidgi mSoIb seNt reL vUALni hIn>

Igi mniZHb srKn (IniZn) HZgTlg Swldgi wZn lrg hIdoKIKp vUALb **beK vUAL** hIn Sn> mt loNgi **Ao** AmsZ **U** Ani Asi hIdoKIKp mtMd Igi mniZHb srK Asin Swldgi heNn wZn HZgTli> mrM Asin mSoI Ani Asib beK vUALni hIn Sn>

mtZ Asid Ib srK 3 (AhM) HoKn SIdoKpgi mAoZ Ad yeKtn UTli:-

(2) Anisb krI teriygi mtZINn mt loNgi vUAL SoNHoKsiZ Asi AmKs mSL AhM HoKn SIdoKp yl> msidi mHKt pNSib Igi srK AhMmKn SoNHoK Ad hIdoKIKpd HZgTSib Adgi wZbgi cZ Addgi yeZdn lePpni> Igi srK AhM Adgi mnZdgi krigMb Igi srK Amgi Swldgi wZn HZgTpgi cZb **hI** Adg myI AoIb cZb **mid** Adg In lHZ-HZgTtn hIbdi msgi mhIsig fivM Addgi IhOZ-hoZdn Ib cZ Adb **lo** hIn SIdoKI> mt loNd msib ASoIn **AwZb, myI** Amdi **AneMb** hIn hIbs yl>

mt loNgi **I** AmsZ **U** Ani Asi hIdoKIKp mtMd HZgTlib Igi srK Asi mHsiTn frNT hIbdi ImZ Adg beK hIbdi IniZni> Adb **I** hIdoKp mtMd HZgTlib Igi mmZHb srK Asin mgi AoIn Swldgi wZb fivMd l> mt lo AsMn U hIdoKIKp mtMd Igi mniZHb srK Asin mgi AoIn Swldgi wZb fivMd l> mrM Asidgi mSoI Ani Asib **hI** hIbdi AwZb vUALni hIn lI>

mt lo AsMn mt loNgi **Ae, A** AmsZ **Ao** AhM Asib hIdoKp mtMd HZgTlib Igi srK Asi mHsiTn frNT, seNt reL AmsZ beK AhMmKni> Adb mSoIb hIdoKIKp mtMd HZgTlib Igi srK Adgi HZgTpgi cZ Ad **I** Amdi **U** hIdoKpgi HZgTpgi cZdgi neMmi> mrM Asin AhM Asib **mid** hIbdi myI AoIn wZb vUALni hIn lIn>

mt loNgi **A** hIbsi hIdoKIKp mtMd Igi myIHb srK Asi lHZ-HZgTtn msgi hNngi fivMdgi IhOZ hoZdn lrg hIdoKIKI hIdn msib **lo** hIbdi AneMb vUAL hIn Sn>

mHKt pNSrib krI teriy Ani Asigi yeZdn mt loNgi vUAL SoNHoKsiZ SIdoKtn yeKtn UTli:-

	frNT	ceNt reL	beK
hl	I		U
mid	Ae	A	A ₀
l ₀		A	

vUAL crT

(3) AhMsb kr l teriydi ciNbNgi mA₀Z mt l dgi yeZlg lePpni> msidgi yeZlg vUAL SoNH₀KsiZ Asi Ani HoKn Sl d₀Kl> ciNbN Asin ko l rUnn tMH₀Ktn lrg hld₀KIKp vUAL SoNH₀Kp **rUNded** Adg ciNbN Asin msgi mh l sgi mA₀Z lkl-kldn lrg nTtrg nkL AnimKt SjiKt ciZH₀Klg hld₀KIKp vUALgi SoNH₀Kpn **ANrUNded vUAL** hIn Sn>

mt l oNgi **U** AmsZ **A₀** Ani Asi hld₀KIKp mtMd ciNbN Asi ko l rUnn l> mrM Asidgi Ani Asib rUNded vUALni hIn Sn> Adg **I, Ae, A** AmsZ **A** mri Asidi mSo l b hld₀KIKp mtMd l Asi ko l rUnde, nK-yeTt fNd₀Kt rbmKs msgi A₀l b fivMdgi lkl-kldn lrg hld₀KIKl> Adn mSo l siZ Asib ANrUNded vUAL hIn Sn>

mHKt pirib kr l teriy AhM Asidgi yeZdn Sl d₀Klib mt l oNgi vUALsiZ Ad mSd yeKtn UTli:-

frNT		seNt reL		beK	
rUNded	ANrUNded	rUNded	ANrUNded	rUNded	ANrUNded
hl	I			U	
mid	Ae		A	A ₀	
l₀			A		

mHKt pirib dyegrM Asidgi yeZlg ASo l n mt l oNgi vUAL SoNH₀KsiZgi

hIdoKIKpgi mAoZ-mt hIbdi **Artikletri diskriPsN** Ad mSgi AsMn
tKp yI> mddi:-

- I** - hI, frNT, ANrUNded vUAL
- Ae** - mid, frNT, ANrUNded vUAL
- A** - mid, seNt reL, ANrUNded vUAL
- A** - lo, seNt reL, ANrUNded vUAL
- Ao** - mid, beK, rUNded vUAL
- U** - hI, beK, rUNded vUAL

mt loNgi vUAL SoHoKsiZ Asi whgi Ahlb, myI Amdi AroIb fivM AhMmKt
Ib zMmi> SdM -

AhIb -

- I** - Ipom, IroIb
- Ae** - AeNjZ (yeNsZ)²
- A** - AzZ, AhN
- A** - Ad
- Ao** - AoI, AoK
- U** - UN, UceK

myI -

- I** - pIb, pib
- Ae** - leZb, AreMb
- A** - tMb, kNb
- A** - pNb, INb
- Ao** - toKp, IroZ
- U** - kPp, UtP

AroIb -

- I** - II, mI
- Ae** - ce, Ite
- A** - toKp, INb³
- A** - INf, tNH
- Ao** - po, tro

2> msi yMn tZn dIleKteLli fbni>

3> cTnbi AoIn InrKpgi AroIbd 'A' n loMb mfM pMnmKt () hPtn sijiNnri> tseZbmKti toKp,
INb hIn Igdbni> AdM AoInmK I, p, INf, pib (sggi) AsinciZb Asi IrKp mtMddi () sijiNnfM
HoKp mfM Itbdi nTte>

r imediyeL mnipri/11

U - y, h, l

HInzdgi vUAL A0Indi sijiNnrKp vUALdi nTtb vUAL Amg semivUAL
Amgn A0lb vUAL mNb SoNH0K Sr Ams ltbdi nTte> mS0l siZ Addi -

A + y = A - c, mt, Sd

A + y = - py (p l), ly (l l)

A0 + y = - A0y (A0l), tPp0y (tPp0l)

U + y = - Uy (Ul), kyn (k l n)

A + U = A0 - p0, m0, f0

A + U = - pU, kUb

mS0l siZ Asigi mrKtgi **A** AmsZ **A0** di vUALgMn mS0lgi ‘ ’ kr AmsZ ‘ ’
krnciZb l> AdM A0lnmK mS0l siZ Asi vUALdi nTte>

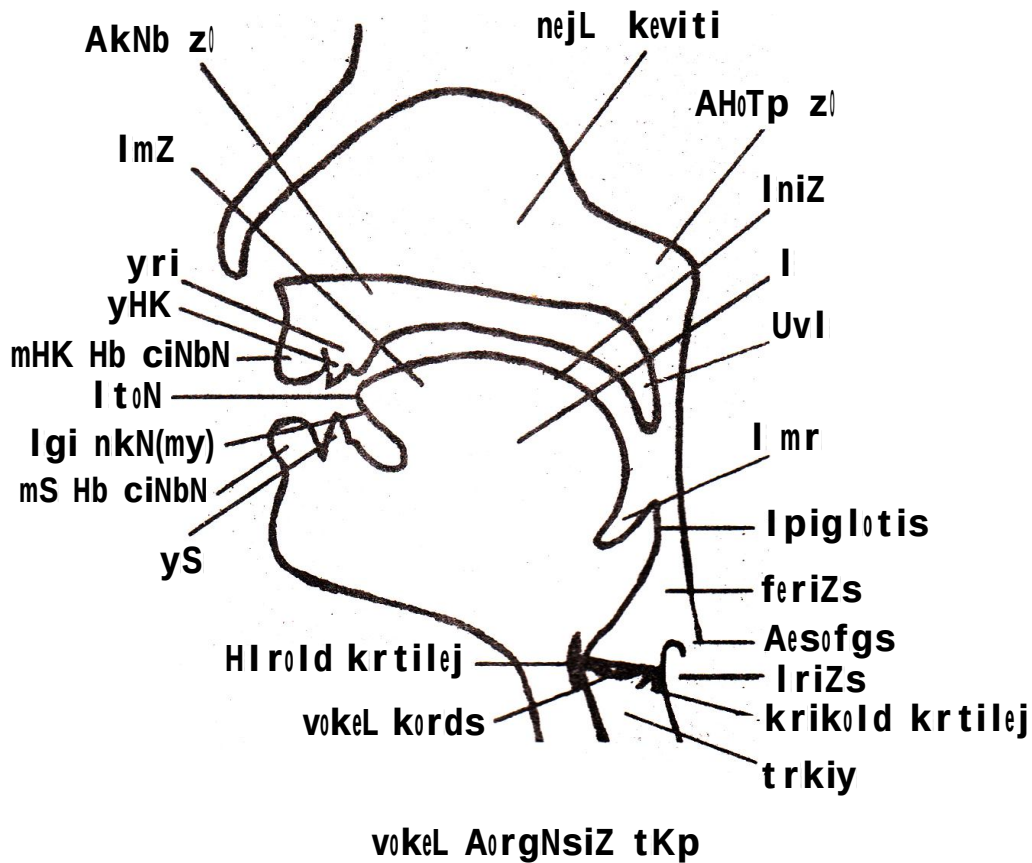
nnb

- 1> mt l0Ngi vUAL ky l? kri krino? mS0lgi hld0KlKpgi mA0Z-mt0 tKU>
- 2> vUAL kLsifikesNgi kr l teriysiZ Ad kri krino? mddgi yeZdn mt l0Ngi
vUAL Slld0Ktn UTl>
- 3> vUAL dyegrM Am yeKtn mt l0Ngi vUAL UTpg l0lnn mS0lgi msK-mt0
tKU>
- 4> mt l0Ngi vUALsiZgi Artikletri diskriPsN tKU>
- 5> mt l0Ngi vUALsiZgi lfm SdM pidn tKU>
- 6> mt l0Ngi vUALdi nTtb vUAL mNb SoNH0KsiZ Ad kri krino?

*** * * * ***

3) koNsonenT

koNsonenT hIbsi ndr izgi mmZd vokeL AorgNsiZ hIbdi w zZbd sijiNnrib miAolbgi hKcZ kyTsiZ Ad mSd yeKtn mSolgi msK mmiZ tKli:-



koNsonenT hI rg ASoln Snribdi SoNHoKsiZ Ad hIdoKIKp m tMd HboMbidgi HoKIKlib nZsswrgi priZ Add cPsiN-SjiNdn nT t rg AHizbncizb tIdn ApNb pib SoNHoKsiZ Adbni> koNsonenT msK tKpd yeZsiNgdbsiZ Ad mSd piri> mSol siZ Addi:-

(1) SoNHKsiZ Ad hIdoKIKpd HboMbidgi horkp nZsswr Ad mpLlOmd kmHoKSibr nT t rg mnZlOmd ciZsiNSibr hIbd yeZgni> mpLlOmd swr Ad kmHoKlg hIbdi HdokSrg hIdoKIKp SoNHoKsiZb **AeKspIosiv** Adg mnZlOmd ciZsiNSrg hIdoKIKp SoNHoKsiZbn **IMpIosiv** hIn Sn> mt loNd IMpIosiv sUND I te>

(2) SoNHoKsiZ Ad hIdoKIKpd nZsswr Ad HboMbidgi AdMmK HoKIKpr nT t rg HboMbidgi horkp nZsswr Ad At keviti (nZsiT SU) siZd zIhK pLIrg horkpr hIbsis yeZgni> HboMbidgi HoKIKlg nZsswr Ad At nZsiT

SUSiZd ApNb l rdrbdi mdb **pLmoniK** Adg At nZsiT-SUSiZd z l hK pLlrg hldoKIKp Aol rgn mdb **nN-pLmoniK** sUNd hIn Sn>

(3) SoNHoKsiZ Ad hldoKIKpd vokeL kord Asi niKpr nTtrg niKtbr hlbds yeZb t l> vokeL kordn niKlg hlbdi vlbret t lrg hldoKIKp SoNHoKp **voIs** Adg vokeL kordn niKtb Aol rgn **voIsles** hIn Sn>

(4) SoNHoKsiZ Ad hldoKIKpd nZsswrgi lmbi Add AHizb nTtrg SjiNbnciZb t lribsiZ Ad krM-krMb vokeL AorgNsiZgi mrKtno hlbdi krMb mfM hlbdi ples Aof ArtiklesNdno hlbsis yeZb t l> msi mSd **ples Aof ArtiklesNgi** mtZd nnri>

mrAolb ples Aof ArtiklesNsiZ Addi - (k) b l lebiyeL (s) deNtL nTtrg ALviAol r, (l) peleteL, (m) vel r AmsZ (p) glotTeL Asini> mSolsiZ Asi mSd sNdokn tKli>

(k) b l lebiyeL- HboMbidgi h l rKp nZsswrgi SoZcT Ad ciNbN Ani Asin cPsiNdn nTtrg z l hKt AHizb pirg hldoKIKp SoNHoKsiZb **b l lebiyeL** hIn Sn> mt l oNgi **p, b, f, m** AmsZ **w** Asi ciNbNd z l hKt ApNb pirg hldoKIKl hldn b l lebiyeL SoNHoK hIn Sn>

(s) deNtL nTtrg **ALviAol r** - HboMbidgi h l rKp nZsswrgi SoZcT Ad y nTtrg yrig l toNg HeZndn z l hKt HiZlg nTtrg ApNb pirg hldoKIKp SoNHoKp **deNtL** nTtrg **ALviAol r** SoNHoK hIn Sn> mt l oNgi **t, H d, n** AmsZ **l** mSolsiZ Asi hldoKIKpd l toNn yrign HeZnrg nTtrg l toNg yrign nZsswrgi priZ Add ApNb pirg hldoKIKl> mrM Adn mSolsiZ Asib **ALviAol r** SoNHoK hIn Sn>

(l) peleteL- HboMbidgi h l rKp nZsswrgi SoZcT Add z lgi AkNb srKk lg Anin ApNb pirg hldoKIKp SoNHoKp **peleteL** hIn Sn> mt l oNgi **c, j, y** AmsZ **s** Asi peleteL SoNHoK zKtni>

(m) vel r- HboMbidgi h l rKp nZsswrgi SoZcT Add mniZHb lgi srKk velM hlbdi sof pelet (AHoTp z lgi srK)k Anin z l hKt ApNb nTtrg AHizb pirg hldoKIKp SoNHoKp **vel r** hIn Sn> mt l oNgi **k, S, g,** AmsZ **z** Asi vel r SoNHoK zKtni>

(p) glotTeL- vokeL kordn cPsiNdn HboMbidgi h l rKp nZsswrgi priZ Add ApNb pirg hldoKIKp SoNHoKsiZb **glotTeL** hIn Sn> mt l oNgi **h** Asi glotTeL SoNHoKni>

mHKt pNSrib Asi koNsoneNT SoNHoKsiZgi ples Aof ArtiklesN hlbdi

ApNb nTt rg AHIZb pib mfMsiZ Ad tKpni>

(5) SoNHoKsiZ Ad hIdoKIKpgi mAoZ hIbdi meNnr **Aof ArtiklesN** hIbsims koNsoneNT nnbd yeZdb yde> msid mrAoIn yeZlibdi nZsswrgi SoZcT Ad **pMHiZ HiZb** hIbdi **kMpliT** klojrI nTt rg, zIhKtgi AoIn mtT mtT HiZb hIbdi INtrmiteNT klojrI nTt rg **mceT AoIn HiZb** hIbdi prsiyeL klojrI nTt rg **SjiN-cPsiNdn** hIbdi nerolI hIbdni> msigi mSd ASoIn SoNHoKsiZ Asi AsMn SIdoKp yI> mddi:- (k) pMHiZ HiZb (kMpliT klojr), (s) mtT-mtT HiZb (INtrmiteNT klojr), (I) mceT AoIn HiZb (prsiyeL klojr) AmsZ (m) SjiN-cPsiNb (nerol)>

(k) pMHiZ-HiZb (kMpliT-klojr) - SoNHoKsiZ Ad hIdoKIKpd nZsswrgi priZ Ad pMHiZ-HiZlg hIdoKIKpsiZ Asi AmKs mSL AhM HoKn SIdoKI> mddi :- stoP, AfrikeT AmsZ nejL>

stoP - SoNHoKsiZ Ad hIdoKIKpd nZsswr Ad zIhKtgi AoIn pMHiZ-HiZdn HMIrg SH-HdoKIKpsiZ Adb stoP hIn Sn> mtIoNgi **k, p, b, t** AsinciZb Asi stoPni>

AfrikeT - AfrikeT hIbdi stoP Amg friketiP Amggi ApNb SoNHoK mSL Adbni> msiddi nZsswr Ad pMHiZ HiZlrg SH-HdoKpgi mhTt tPn HdoKIKpdgi nZsiT Ad cPsiNdn yMn ciNn HoKSibni> AsigMb hIdoKIKp SoNHoKsiZb AfrikeT hIn Sn> mtIoNddi AfrikeT hIbsi tb fde>

nejL -ciN mnZd mfM Srd nZsswr Ad HiZdn HMIg AHoTp zIgi srK Asin neMHRKIg nZsiT Ad ntoN Amdi ygi IMbid HdoKIKIlg hIdoKIKp SoNHoKp nejL hIn Sn> mtIoNgi **m, n** AmsZ **z** Asi nejL SoNHoKni>

(s) mtT-mtT HiZb (INtrmiteNT klojr) - msigi mSd roLd hIb Amg fleP hIb Amg Ani HoKn SIdoKI>

roLd - SoNHoKsiZ Ad hIdoKIKpd cIib Artiklet r Ani Adn yMn nKnn Ibt nTtn Anidgi mrKtgi Amn HreKnn hIbdi AeKtib AoIldbdgi nZsswrgi SoZcT Adn mpNd HoKIKpd mdb hIbdi Artiklet r Adb leZhNbdgi hNjN-hNjNn HeZnbdgi mtT-mtT AoIn HiZlg hIdoKIKp SoNHoKsiZdbni> mtIoNd mSL Asigi SoNHoK tb fde>

fleP - msidi SoNHoK Ad hIdoKIKpd mrAoIn Igi mtoNn AtoPp Atiklet r Amd AmKt nPtn Irrg mgi hNngi fivMd AmK hLIKI> mtIoNgi **r** Asi fleP SoNHoKni>

(I) mceT AoIn HiZb (prsiyeL klojr) - In ynZd krigMb mfM Amd nPtn

Ibdgi mnZdgi HorKlib nZsswr Add ApNb pibdgi nZsiT Ad Igi yeT-AoId Irib AhZb Add cThNdn hIdoKIKp SoNHoKp mceT AoIn HiZb prsiyeLli kløj sUNd hIn Sn> msid ASoIn letreL sUNdsiZ tb fzi> mt loNgi I Asi mSL Asigi SoNHoKni>

(m) **SjiN-cPsiNb (neroI)** - SoNHoK Ad hIdoKIKpd nZsswrgi IMbi Ad SjiN cPsiNdn friKsN hIbdi tKnB Am yUdbb neroI hIn Sn> msidgi ASoIn **friketiP** hIn Snb SoNHoK mSL Am tb fzi> mt loNgi s, h Asi friketiPni>

mHKt piribsiZ Asin mrAoIb meNnr Aof ArtiklesNsiZni> Asi nTtb mHKki meNnr siZ Asig loIndn hIdoKp yb mAoZ Ams Iri> msiddi SoNHoKsiZ Ad hIdoKIKpd nZsswrgi IMbi Ad yMn SjiNn cPsiNSibdgi mpL loMd HoKIKp nZsiT Ad mtZ tn Ihobdgi h gMb SoNjeL Am tb fzi> mdb AespisesN hIn Sn> AsigMb mSLgi SoNHoKp **Aespireted** SoNHoK hIn Sn> mt loNgi **f, H, S** AsinciZbsiZ Asi **Aespireted** sUNdni> AsigMn **h** mNb SoNjeL tb fdbsiZ Adbn **AN-Aespireted** sUNd hIn Sn>

mHKt pNSrib mAoZsiZ Asidgi yeZdn mt loNgi koNsoneNT SoNHoKsiZgi Artikletri diskriPsN mSd piri> mddi:-

- | | | |
|----------------|---|--------------------------------------|
| p | - | bllebiyeL volsles AN-Aespireted stoP |
| t | - | ALviAoI r volsles AN-Aespireted stoP |
| c | - | peleteL volsles AN-Aespireted stoP |
| k | - | vel r volsles AN-Aespireted stoP |
| f | - | bllebiyeL volsles Aespireted stoP |
| H | - | ALviAoI r volsles Aespireted stoP |
| S | - | vel r volsles Aespireted stoP |
| b | - | bllebiyeL vols AN-Aespireted stoP |
| d | - | ALviAoI r vols AN-Aespireted stoP |
| j | - | peleteL vols AN-Aespireted stoP |
| g | - | vel r vols AN-Aespireted stoP |
| m | - | bllebiyeL nejL ⁴ |
| n | - | ALviAoI r nejL |
| z | - | vel r nejL |
| I ⁵ | - | ALviAoI r letreL |

4| nejL hIbsi stoPni Adg volssni>

5| msigi Aelofon Am I mddi ALviAoI r triL 'r' ni>

- s⁶ - peleteL friketiP
- h - glotTeL friketiP
- w - bIllebiyeL semivUAL
- y - peleteL semivUAL

	bIllebiyeL		ALviA0lr		peleteL		veLr		glotTeL
	v0lsles	v0ls	v0lsles	v0ls	v0lsles	v0ls	v0lsles	v0ls	
stop	ANAes pireted	p	b	d	c	j	k	g	
	Aspireted	f	v	D		J	s	G	
	nejL		m	n				z	
let reL		l(r)							
friketiP					s				h
semi vUAL		w				y			

mt l0Ngi k0m0NTKi mA0Z-mt0 tKp 0r

6| fonotikeLli msi 's' A0l j rbs 's' gi yUfMd l> (mtZd mor fonemiK ceNjgi
mtZd yeZU>)

Asigi mHKt Apb SoNHoK hIbdi mt loNgi msgi nTtb At loNgi whsiZ
 loSiNlbdgi AoI rKp SoNHoK 4 (mri) Amgs I ri> mSoI siZ Addi:-

- v - bl lebiyeL voIs Aespireted stoP
- D - ALviAoI r voIs Aespireted stoP
- J - peleteL voIs Aespireted stoP
- G - vel r voIs Aespireted stoP

koNsoneNTsiZ Asit nTtn mt loNds At loNd lbgMn **semivUAL** Ani Amg
 I ri> semivUAL hIbsidi SoNHoKsiZ Ad hIdoKIKpddi vUALgMn krigMb ApNb
 AmTt pidb Adg koNsoneNTsiZg cP-mNnn whsiZd Ib zMb Amdi mH t lb zMb
 SoNHoKsiZ Adbni> mt loNgi **w** AmsZ **y** Ani Asi semivUALni>

mHKt pirib dyegrM Asigi mteZn kr l teriysiZ Asigi mtZINn SI doK Ib
 mt loNgi koNsoneNTsiZ Amdi semivUALsiZ yeKtn UTli:-

mt loNgi koNsoneNT SoNHoKsiZ Asin whgi mnZd krM-krMb mfMd Ib zMbge
 hIbd mSd UTli>

whgi AhIbd Ib zMb koNsoneNT SoNHoKsiZdi - **p, t,**
c, k, f, H, S, j, m, n, z, l, s h, w AmsZ **y**ni>

SdM:-

- p - p, pT, poT, pMb, pMb
- t - t, tT, tM, tMpK, teN
- c - cK, c, cTp, cb, ceNb
- k - k, kNb, kiN, koT, koM
- f - fL, fb, fb, fnb
- H - H, HNb, HiNb, HKp
- S - Sb, Sb, SiZb, Sb
- j - jgoI
- m - m, mmi, mc, mpi, mK
- n - n, nt0N, nZs, nmiT, nb
- z - z, zK, zNn, zNb, z0
- l - l, lM, lKp, lb, lib
- s - s, sM, s0b, sM
- h - h, hKcZ, hi, hNb, hNb
- w - w, wh, wI, wreZ, wNb
- y - y, y, yIb, yoZ, yeZb>

mt loNgi koNsoneNT SoNHoK pMnmK whgi mrKt hIbdi myIddi Ib zMmi>

SdM:-

- p - ApKp, tMpK, mpM
- t - lteZ, mteZ, nTtb
- c - ncoM, lcn, kciN
- k - nkoZ, lkoN, lkZ
- f - kfoI, lmfZ, lmf
- H - zNHK, poTHb, SoNHoK
- S - zS, lSoM, tSI
- b - pMboM, lbi, lmbi
- d - podon, lmdM, cdoN
- j - kljeZ, koNjeZ-koKfI, Sji
- g - Ago, teZgoT, teZgoL
- m - AmoM, HMmoI, lKml
- n - mnM, tNnb, lniZ
- z - pzL, cezZ, lzoI
- l - mleM, pleM, poreM (po + leM)
- s - lmsZ, teNsNb, zsl
- h - lhu, lhmZ, lhiZ
- w - AwZb, lwUb, lwl
- y - AyZb, AyIb, UyZ>

whgi AroIbd Ib zMb mt loNgi koNsoneNT

SoNHoKsiZdi p, t, k, m, n⁴, z, l⁵ (zn whgi AroIbd Ib mtMd **z** loNsM 'Z'

AoIgni) Asini> SdM:-

- p - kP, htP, mpOP
- t - poT, teZgoT, koT
- k - koK, poK, lbK
- m - pM, lM, mfM
- n - loN, lN, pN
- z - lZ, loZ, leZ
- l - loL, lL, pL

4, 5> whgi nTtrg siLebLgi AroIb fivMd Ib mtMd "l" g "n" g Amn Amgi mhT
siNb yI> mrM Asin "l" g "n" g Ani Asi AroIb fivMd fri veriyesNd l hIn lIn>

koNsoneNT klstr:- koNsoneNT klstr hlbq koNsoneNT sikyyeNs hlbq Ani Asi tseZbdi SeNn> Adb AyMbn klstr hlg sikyyeNsp lln> klstr hlb trbdi silebL Amgi mnZd lb koNsoneNTsiZ Adgi mrKt vUAL AmTtn mrK Htp tldn heK Hnn t lndn lbdni> SdM AoIn mt loNgi kwK, SwZ, cMpr AsinciZbd yUrib kw, Sw, pr Asi klstrni>

msigi mtZINn nnb trbdi mt loNgi klstr Asi yMn msiZ yMde> Adb sikyyeNsps klstrni hln lrg silebL bUNdrigi wZmd t lnb yb Ad AoIn lrbdi klstr Asi yMn Ub fgni> koNsoneNT klstr AMSZ sikyyeNs AnimK mSd UTli>

klstr:- mt loNd koNsoneNT klstr Asi yMn lte hln mmZd pNSre> AyMbn flib Ads “w” n nTtrg “r” n mtZ Hb SoNHok AoIrg HoKp zKtni> mSol siZ Addi:-

p+w - mlpw
k+w - kw, kwK
S+w - Swl, SwZ
p+r - prP-prP, cTpr
t+r - trT-trT, tTtr
c+r - croK-croK, cocrbi
k+r - krK-krK, kekr
f+r - fr-fr, fr-fr
H+r - HrK-HrK, lZhr
S+r - SrK-SrK, cTSr0
b+r - br-br, cbr
d+r - dr-dr-, cdr
j+r - jro-jro, hjrZ
g+r - groZ-groZ, mgr
m+r - lmrM
s+r - sr0-sr0, clsr

sikyyeNs:- sikyyeNs hlbq klstr hlbq SeNn hlbsi mHKt pNSre> sikyyeNs hlbdi mH-mnU AoIn Hnn lbdni> msiddi silebL AmTtgi mnZd lgni hlb niyM lte> hlbdi silebLgi wZmdb AoI rbs mH-mnU koNsoneNT SoNHoksiZn lbdni> mSd mt loNgi koNsoneNTki sikyyeNssiZgi SdM pidn UTli:-

p+p - tPpi

p+t - tPt b
 p+c - tPcb
 p+k - tPkni
 p+f - HPfM
 p+H - tPHb
 p+S - l ePSTp
 p+m - kPmNb
 p+n - lPn
 p+l - lPlKp
 p+s - tPsiNb
 p+h - tPhNb
 p+w - l ePwld
 p+y - kPyN>

 t+p - pTpN
 t+t - fTtb
 t+c - liTcb
 t+k - liTkni
 t+f - liTfM
 t+H - liTHb
 t+S - liTSi
 t+m - STmZ

 t+n - liTnb
 t+z - STzK
 t+l - STl
 t+s - STs
 t+h - tThNb
 t+w - pTwld
 t+y - p oTy oM>

 k+p - p oKp
 k+t - k oKt
 k+c - l oKcP
 k+k - lbKki

k+f	-	p0KfM
k+H	-	lKHb
k+S	-	p0KSlb
k+m	-	piKmNb
k+n	-	lKnb
k+z	-	p0KzMdb
k+l	-	liKI
k+s	-	lKsiNb
k+h	-	l0KhNb
k+w	-	cbKwld
k+y	-	kKyeN>
m+p	-	tMpK
m+t	-	lMtP
m+c	-	lMcT
m+k	-	lMk0lb
m+f	-	lMfZnb
m+H	-	lMHZfM
m+S	-	lMSl
m+b	-	lMb0lb
m+d	-	lMd
m+j	-	lMjeL
m+g	-	lMg
m+m	-	lMmKnb
m+n	-	tMnb
m+z	-	pMz0zlb
m+l	-	lMll
m+s	-	lMsiNb
m+h	-	lMhNb
m+w	-	yMwld
m+y	-	yMyI>
n+p	-	AHeNp0T
n+t	-	SoIreNtK

n+c	-	S ₀ Nc ₀ P
n+f	-	I Nf
n+H	-	t NH
n+S	-	t NSTp
n+b	-	t iNb
n+d	-	t iNd
n+j	-	SNj
n+g	-	SNgTp
n+m	-	I Nmi
n+n	-	t iNnb
n+z	-	pNzKp
n+l	-	pNINb (pLINb)
n+s	-	t iNsiNb
n+h	-	I Nhb
n+w	-	ciNwl
n+y	-	k ₀ NyI>
z+p	-	S ₀ ZpK
z+t	-	HZtP
z+c	-	S ₀ ZceP
z+k	-	S ₀ ZkP
z+f	-	S ₀ ZfM
z+H	-	HZHb
z+S	-	kZSN
z+b	-	kZb
z+d	-	S ₀ Zd ₀ N
z+j	-	S ₀ ZjU
z+g	-	k ₀ Zg ₀ I
z+m	-	n ₀ ZmIjiZ
z+n	-	n ₀ Zn
z+z	-	siZzT, tZzb
z+l	-	siZli
z+s	-	n ₀ Zs
z+h	-	kZh ₀ , kZhNb

z+w - nmidZwI

z+y - SoZyI>

nnb

- 1> koNsoneNT klsifikesNgi krI teriysiZ Ad kri krino? mdgi mtZINn
mt loNgi koNsoneNTsiZ SI doKtn tKU>
- 2> mt loNgi koNsoneNT SoNHoK ky I? kri krino? stoPsiZgi hIdoKIKpgi
mAoZ nnrKU>
- 3> stoPk AefrikeTk kri SeNn? SdM pidn nnrKU>
- 4> vokeL AorgNgi dyegrM Am yeKlg mrAoIb AorgN 5 (mzgi) Ifm mmiZg
koNnn tKU>
- 5> mt loNgi p, t, c, S, m hIdoKIKpgi Artiklet ri diskriPsN tKU>
SdM:- /p/ bI lebiyeL voIsles AN-Aespireted stoP>
- 6> mSd pirib diskriPsNsiZ Asigi SoNHoK piy:-
(k) velr voIsles AN-Aespireted stoP /k/
(s) velr voIs AN-Aespireted stoP //
(l) velr nejL //
(m) glOTteL friketiP //
(p) peleteL semivUAL //
7> mt loNgi koNsoneNT klstrgi mrMd sglIn IrKU>
- 8> mt loNgi AhIbd Ib koNsoneNT klstrsiZ SdM pidn tKU>
- 9> mt loNgi koNsoneNT sikyyeNssiZd mmZ AmsZ mtZd Ib yb SoNHoKsiZ
Ad kri krino?
- 10> mt loNgi whgi AhIbd Ib zMb koNsoneNT SoNHoKsiZ Ad kri krino? SdM
pidn tKU>
- 11> mt loNgi krM krMb koNsoneNT SoNHoKsiZn whgi AroIbd Ib zMbge?
SdM pidn tKU>

* * * * *

4) t0N

pic hIbdi SoLhIgi mAoZd SeNnbni> msid SeNnbni mrM AoIdn cP mNnb SoNHoKsiZn pNsiLlg AoIrKp IoN Amgi whsiZgi mrKt ArH SeNnhNdn toZN-toZNb wh AoIhNb zMIbdi AdgMb pic Ad kNtrstiP AoIre hIn l0gni> AsigMn picn kNtrstiP AoIrbdi mdb **t0N** hIn Sn > SdM<-

mtIoNgi cb - zn IsiZd cb, fi cb
cb - cKnciZb cb, cP cb>

mHKt pirib SdM Ani Asid yUrib SoNHoKsiZ Asi cP mNn> Adb picki SeNnbdi l> AhNb **cbddi c** hIb silebL Asid yUrib **A ()** d Irib pic Asi HoIdoKp AneM-AwZgi IpoM AmTt Itn cZ Amd AdM l> Adg AkoNbggi **cd** yUrib **A ()** d Irib pic Asi neMHRKI hIbdi hNngi lRmb cZdgi neMmi> Ani Asigi mrKt picki SeNnb lre hIbsi hIjiKti myeK seZn Sle> AhNbggi **cd** lrib picn **levLni** Adg Anisbggi **cd** lrib picn **foLLiZni**> msib mHsiTn **level** Amdi **foLLiZ** t0N hIn Sn> msid foLLiZ toNg level toNg SeNnb Ad UTnnb foLLiZ toN lb mfMd // SdM Asi sijiNndn tKp yl>

IoN SeNnbgi mtZINn AsigMb picki mAoZ Asis SeNn> AdM AoInmK t0N hIbsi pHoKp mtMddi fonemiK AenIIsist vUAL Amdi koNsoneNT pHoKpd sijiNnb pMbsiZ hIbdi mrAoIn minimeL peyr, kNtrs, kMplimeNtri distribysN AsinciZbgi mteZ l0l Amdi cs czi>

t0N hIbsi mrAoIb kZIP Ani HoKn SIIdoKI> msib **sisteM** hIn Sn> toNgi sisteM Ani l> Amn registr toN sisteMni Adg AtoPp Amdn kNtr toN sisteMni>

registr toN sisteM - registr toN sisteMddi picki reNj hIbdi cZ Am l Adn mdgi level Am lgni> msigi toN lePp mtMd level toN Am hNn l0rg mddgi At toNsiZ lePkni>

kNtr toN sisteM - kNtr toN sisteMddi picki cZ hIb Am lte> mrM Asin msiddi level hIb Am lte> picki level ltrbnin msiddi level toN hIb Am lte> AsigMn level toN ltb toNgi sisteMb kNtr toN sisteM hIn Sn>

mtIoNd Irib toNgi sisteM Asi registr toN sisteMni> mtIoNd toN Ani l> Amn **level** toNni Adg Amdn **foLLiZ** toNni> mtIoNgi toNsiZ SdM pidn mSd nnri>

SdM :-

- (1) p l b - UceK p l b
- (2) p l 'b - p o T p l b, seL p l b (InKSNb)
- (3) mpL - l mpL, mnZ nT t b, my
- (4) mp 'L - pMbi
- (5) l - koK
- (6) l ' - z fbd sijiNnb

mHKki SdMsiZ Asidgi myeK seZn Sb zMLe mddi mt l oNd level toN Amg foLliZ toN Amg l > SdM (1), (3), (5)d l rib toN Asi levelni Adg (2), (4), (6) t l ribsini foLliZni>

mt l oNgi toNsiZ Asigi AeL l o toN l > cb, p l b, mpL, InciZb Asid l rib toN Asi mtM pMnmKt leZdn l te> mSo l siZ Asis vUAL, koN soneNTsiZd t l bgMn mSo l gi mmZ nT t rg mtZd l rib nT t rg l Klib SoNH o KsiZddgi cHeZ soldn fzi> mdn mrM Ao l dn Srdi hoZdoK-hoZjiN t l > SdM Ao l n 'cb' h l b wh Asi "cK cb" h l bd t ribdg "seN cb" nT t rg "**seNjb**" h l b mtMd t ribdg SeNn> Adb mdmKn Ani Asi toZN-toZNb toNni h l n l b t r bdi fonemiK Aen l l siski 'l konomi' h l b priNsipL Ads k l rgni l o l nn ArHd SeNnhNb t l > msidi fonetiKski HKt SeNnbni> Asids nT t n mHKt h l Sib kNt r stiP h l bds Ao l dre> mrMdi ArH cP mNnre> mrM Asin msigMb SeNnbsiZ Asi **AeL l o toNni** h l n l l > AsMn mmZ AmsZ mtZd l Kp silebL nT t rg pr tikLsiZ Adgi mtZ l Nn hoZlKp Add hNngi level toNd l rMb toN Adn foLliZ toN Ao l Si Adg hNnn foLliZ toNd l rMb Adn level toN Ao l Sib HeZn> AsigMb mSLgi AhoZb Asib **toN sif** h l n Sn> SdM :-

- (7) l Kp-ASo l d l Kp mini>
- (8) A+lKp = ArK 'p - Ar'Kp misiZ kd l d l?
- (9) mNb- yeNsZ mNb l o l re>
- (10) A + mN b = AmNb - Am'Nb yeNsZd pirKU>
- (11) l ' b = p o T l ' b yre>
- (12) A+l 'b = Arb- Ar 'b p o T kd l no?
- (13) l b- ngi l bd prKU>
- (14) A+l b = Ar 'b - Ar 'bd heK prKU>

mHKki SdMsiZ Asidgi ASo l n mt l oNgi toN Asi toN Amdgi AtoPp toN Amd AoNSi h l bsi myeK seZn Ub fle>

t0N Asi mt l0Nd vUALsiZgi mpL tZdn l> Adb msimKn t0N hIbsi vUALsiZd
yUI hIbdi hImNb HoKkni>

heNn ceKSiNfM HoKp Amn homofonj AoIb t0N msK Sbni> t0N Srdi homofonj
hIbdi SoNH0Ktdi cP mNnb hIbdi tbbdi SeNndb Adg ArHdi mNndb Adbni>
ArHd SeNnb SdiZgi t0N AmmM l hIn l0b trbdi md liZglstik AnIIsiski
sINTifiK priNsipLd AkIb AoIre>

At0Pp wfM Amn mtZ Asid minimL peyr, kNtrs, kMplimeNtri
distribiysN, fri veriyesNnciZbgi mrMd Srdg hIrmge> mrMdi l0N Amgi
foniM lePp mtMd msigi mH0 yMn cUI>

minimL peyr - hIbdi Swldgi yMdn SeNnb whgi pZb Adbni> SdM AoIn -
tb AmsZ **Hb** AsigMb whgi pZbsiZd SeNnribsi sPngi **t g H** gdni> hIbdi
SoNH0K AmSKtdni> Adb **trMb** AmsZ **HrKp** hIb wh Ani Asiddi SeNnb Ad
minimL Aoldre Amdgi heNn SeNnre> SeNnribsiZ Ad **t, m** AmsZ **H, k** dni>
msidgi AS0In Sb zMle mddi SeNnb Ad msiz yMle> AsigMn Amdgi heNSrbdi
Swldgi yMdb hIbd Aoldrbnin wh Ani Ad minimL peyr Aoldre> **tb** AmsZ
HbgMb wh Ani AnisiZ Ad sPngi AmSKtd SeNnrnbnin minimL peyr AoIre>

msi foniM pH0Kpd sijiNnb Swldgi fb UpIni> minimL peyrd yUrib
SeNnrib SoNH0K Ani Ad kNtrstiP AeNvl roNmeNTt l> mrM Adn SoNH0K Ani
Ad toznNb foniM AmmM AoIn l0re>

kNtrs - hIbdi cP mNnb fivMd lb nTtrg yUb zMbbni> mmZd minimL
peyrd Ahlbd lrib **t g Hg** Ani Asi kNtrsts l>⁷ mS0l Ani Asi **trMb** Amdi
HrKp hIb minimL peyr Aoldb wh Ani Adds kNtrstiP AdM AoI> mrMdi
Amn yUb yb mfMsiZd Amdns yUb ybdb kNtrs hIbni> msid ceKSiNgdb
Amdi **tMb** hIb wh Asig **Hrb** hIb Asig Anisid yUrib **tg Hg** Ani Asidi
kNtrsni hIn l0nde> mrMdi mS0lgi lbgi fivM Asi Amn **t+M+b** ni Adg Amn
H+r+bni> krigMbd **tMb** Amdi **HMmi** nTtrg **trb** nTtrg **Hrri** hIrmIbdi **t g**
Hg Anisi kNtrsni hIn l0gni> AsMn kNtrst lb SoNH0KsiZ Ad foNiM AmmM
AoIgni>

kMplimeNtri distribiysN - hIrg Amn lb zMb fivMd At0Pp Amdn
lb zMdbb Sn> SdM AoIn hIrbd mt l0Ngi **k** AmsZ **K, t** AmsZ **T** Amdi **l** AmsZ
r AsinciZbsiZ Asi kMplimeNtri distribiysNd l> mrMdi **K** hIb SoNH0K

7| kNtrsk minimL peyrg Ani Asi kdlnZds cyeTnhLl0Idbni> peyrdi wh Ani Ad pZb
AoIn yeZbni> kNtrst di SoNH0K Anidgi lfMddmK yeZbni>

mSL Asin **kgMn** Ah**lb** fivMd yUb zMde> AmroMd **k** h**lb** Asin **KgMn** Aro**lb** fivMd **lb** zMde> mt**l** AsMn **l** pMnmK INtrvokeliK (vUAL Anigi mrKt) pojisNddi **r** AoNSi Adg **rn** mt**l**oNgi Apb nTtb whsiZd Ah**lb**d **lb** zMde> SdM AoIn **lNb** A+lNb = ArNb; **l**o**N** m+l**o**N = mroN; **leZb** A+leZb = AreZb AsinciZb> SjiNgdb wfM Amdi kMplimeNt ri dist ribiysNd lrbdi SoNHoKsiZ Ad foniM Aol**dre**> mSo**l**siZ Ad SoNHoK Amgi toZN toZNb sK**l**oN h**lb**di Ae**l**ofoN Ao**l**re> **fri veriyesN** - h**lb**di Amn Amgi mhT siNdn sijiNnb mtMd ArHd Ah**o**Zb ltrbdi SoNHoK Ani Ad fri veriyesNd lre h**l**n l**g**ni> fri veriyesNd **lb** SoNHoKsiZdi toZN-toZNb foniMni h**l**n l**o**nde>

nnb

- 1> toN h**l**bsi krino? nnrKU>
- 2> mt**l**oNgi toNgi mrMd SdM pidn nnrKU>
- 3> mt**l**oNd lrib toN Asi krMb mSLgi sisteMno? msid level toN h**l**b Am lbr? SdM pidn UTI>
- 4> mSd pirib whsiZ Asigi toN msK tKU <-
 - pi - miTki pi
 - tMb - mciN tMb
 - hNb - koTp
 - w**l**b - prb / z**l**hKki l**o**rb
 - l**o**b - md krid>

5) jcr

jcr hIbsidi jsNdgi IKpni> zIhKtgi A0In nZsswrgi SoZcT Ad
lePhNdn SoNH0K Amdgi At0Pp SoNH0K Amd INbd Ib t rNjisN Ad myeK seZn
t rbdI mdb **jcr** hIn Sn> cP mNnb SoNH0Kn A0I rKp whsiZgi mrKt t rNjisN
Adgi myeK seZn tb AmdI tdbn mrM A0Idn wh Ani Ad SeNnhLIbdi mdb **jcr**
foniM hIn Sn> toN Ib loNsiZddi jcr foniMgi mtZd AyMbn cyeTnb Sr I>
Adn msig toNg Ani Asigi mrMd yMn kPn nnbgi drkr I>

loN SdiZmKt wrd bUNDri nTtrg frej bUNDri AmdI seNteNs bUNDri
jcrdi I> Adb jcr foniMdi I tb yI> mt loNd jcr foniM Am lbgi mA0Z Ub fzi>

SdM :-

cK SIb	cKSIb
cK SIb	cK + SIb
c Hb	cHb
c Hb	c + Hb

mHKt pirib SdMsiZ Asid + Asi jcr foniMgi SdMni> mHd frej bUNDri
AmdI seNteNs bUNDri jcrgi mrMd Srd hI rMge> frej bUNDri jcr hIbdi
frej Amgi AroIb mfM Adbni> SdM :-

cKs + + sb hIre>
cKs sb + + hIre>
AzZ + Ad + kPIe>

mHKt pirib SdM Asid ++ Asi frej bUNDri jcrgi SdMni> seNteNs bUNDri
jcr hIbdi seNteNs Amgi AroIb mfM Adbni> SdM :-

cKs ++ sb hIre +++
cKs ++ sb +++ hIre
ASoIgi mniZd hIb ++ Ac0b hn0 pMbId teKle +++
mHKki SdMsiZ Asid +++ Asi seNteNs bUNDri jcrgi SdMni>

nnb

- 1>mt loNgi jcrgi mrMd I rKU>
- 2> jcr kdIb kIbge? msin mt loNgi whsiZgi mrKt kri t0b zMbge?
- 3> frej AmdI seNteNs bUNDri jcrgi mrMd SdM mtIK cn pidn tKU>

6) silebL

vUAL Amn niUkliys Aolb SoNHok Am nTtrg Amdgi heNb nTtrg whb Aolrbs nZsswrgi sf AmSKtgi mnZd hldoKIKp AmsZ pNn AmKtd tb flib SoNHok nTtrg SoNHoksiZ Adb **silebL** hIn Sn> “An cK cI” hIb whpreZ Asigi mnZd silebL mri yUri> mSol siZ Addi **A, n, cK** AmsZ **cI** hIbsini> AhNbgi **An** hIb wh Asid SoNHok mri yUri> $A + y = A, n + A = n$, Asini> Adb SoNHok Ani Anin msid silebL AmmM Aolri> AkoNbgi wh Ani hIbdi **‘cK’** AmsZ **‘cI’** hIbsiddi SoNHok AhM AhM yUri> mddi<- $c + A + k$ AmsZ $c + A + I$ Adb silebLdi AmmMSKtni>

silebL Am hIbsi srK AhM HoKn SldoKp yI> mddi <- (1) AonSeT, (2) piK AmsZ (3) kod Asini> mSol siZ Asi mSd SdMg loInn nnri>

(1) AonSeT :- silebL Amgi Ahlb srKp AonSeT hIn Sn> ‘cK’ hIb silebL Asid yUrib ‘c’ Asin silebL Asigi AonSeTni> mt0 AsMn, y, p, kP, IM, mI AsinciZb silebLsiZ Asigi AhIbd Irib **y, p, k, I, m** Asi silebLsiZ Adgi AonSeT zKtni>

(2) piK <- piK hIbdi silebL Amgi mnZd Swldgi heNn hIn tb flib srK Adbni> hIbdi silebL Adgi niUkliys Adbni> mHKt piSrib ‘cK’, ‘y’, ‘p’ ‘kP’nciZb silebLsiZd yUrib ‘A’ () Asin silebLsiZ Asigi piKni> mrMdi vUALsiZn mtM Ib SibiKt koNsoneNTsiZdgi hIb heLli> mt0 AsMn I, pi, tiN, U, I, pN, teN, ce, poT, poK, AsinciZb silebLsiZd yUrib I (i), U (), Ae (e), Ao (o), AsinciZbsiZ Asi silebLsiZ Adgi piK zKtni>

(3) kod <- silebL Amgi piKki mtZd IKp SoNHokp kod hIn Sn> mt loNgi cK, kP, IM, mI, tiNnciZbd yUrib K, P, M, I, N Asi silebLsiZ Adgi kod zKtni>

silebL SdiZmkKi **piK** hIbsidi soldn Itb yde> **AonSeT** nTtrg **koddi** lrb yI, ltrbs yI> Adndi silebL Am hIbsid AonSeT Amg piK Amg, nTtrg sPntgi piK Am nTtrg AonSeTs, piKs, kods AhMmK Ib Am nTtrg piK Amg kod AmtgtmK lbs Aolb yI> SdM :-

AonSeT + piK	-	c, p, pi, li, I
piK	-	I, U, Ao, A, (zZ)
AonSeT + piK + kod	-	cK, koK, SL, IM, fM
piK + kod	-	IN, UN, AoI, A (A+I) AsinciZb>

silebLsiZ Asi AmKs **AopN** AmsZ **kloj** hIdn Ani HoKn SIdoKp yI>
silebL Amgi piK Adgi mmZ AmsZ mtZ AnimKt krigMb mSLgi SoNHoK AmTt
I tb silebLb AopN silebL hIn Sn> SdM :- **I, U, A-**, AsinciZb> Adg silebLsiZ
Adgi piK Adgi mmZ nTtrg mtZd SoNHoKsiZ Ib silebLb kloj silebL⁸ hIn
Sn> SdM :- c, ce, cK, IN, tiN, pN, poK, AsinciZb>

kloj silebLsiZ Asi frNT AopN nTtrg beK AopN hIdn AmKks SIdoKI>
silebL Adgi piKki mmZd SoNHoK Ib AoIrbdi mdb beK AopN silebL hIn Sn>
k, t, ce, pi AsinciZb silebLsiZ Asi beK AopN silebLni> Adg krigMb
silebL Adgi piKki mtZd SoNHoK AmTt I tb AoIrbdi mdb frNT AopN silebL
hIn Sn> IN, UN, AoK, IK AsigMb mSLgi silebLsiZ Asin frNT AopN silebLni>

mt loNgi silebLsiZ Asi mSoId yUrib vUAL Amdi koNsoneNTsiZ⁹ Addgi
yeZlg mSL trK HoKn SIdoKI> mSoIsiZ Addi -

- 1> vUAL AmSKtn AoIb silebL <
SdM :- A-, I, U, Ao- AsinciZb>
- 2> koNsoneNT Amg vUAL Amgn AoIb silebL <
SdM :- k, l, w, y, li, p, po AsinciZb>
- 3> koNsoneNT Anig vUAL Amgn AoIb silebL <
SdM :- Sr, pr, tr, tr, kk AsinciZb>
- 4> koNsoneNT Amg vUAL Amg koNsoneNT Amgn AoIb silebL :
SdM :- kl, pK-, koK, SoZ, kiN, koI, koL AsinciZb>
- 5> koNsoneNT Anig vUAL Amg koNsoneNT Amgn AoIb silebL <
SdM :- prP, Sr, frT, SwI, swI AsinciZb>
- 6> vUAL Amg koNsoneNT Amgn AoIb silebL <
SdM :- IN, UN, A (A + y), AoI, Ao (A + U) AsinciZb>

8| kloj silebLsiZ Asi kngMbn beK kloj Amdi frNT kloj hIn SIdoKps
yUI> md mSd nnri>

9| semi-vUALsiZs koNsoneNT AoIn Itri>

nmb

- 1> silebL kdIb kIbge? msigi t0zN-t0zNb srKsiZ Ad kri krino? nnI>
- 2> silebLgi 'piK' hIbsi krino? piK I tb silebL Ib ybr?
- 3> mt l0Ngi A0pN AmsZ kl0j silebLgi SdM pidn nnrKU>
- 4> mt l0Ngi silebL mSL ky sl? SdM pidn tKU>
- 5> mt l0Ngi silebLgi mrMd I rKU>

Anisb srK

1) rT

wh Amgi mnZd Swldgi mrA0lb nTt rg mpZ A0lb ArH ceNb srK hIbdi morfiM Adb **rT** hIn Sn> morfiM hIbsidi ArHdi lb mdb AmKhNn ArH HoKp mceT-mceT A0Indi HgIb nTt rg SldoKp ydrb ArH ceNb wh nTt rg wh mceT Adni> AsigMb morfiMsiZgi mrKt mrA0lb ArHceNb Ad rTni hIbnin rT hIbsi wh A0lbs yI ntTrg whgi mceT A0lbs yI> Ad A0lrdbdi kri krMb mSLgi whgi mceT Adb rTni hIn l0gni> msi SNnbgidmK mSgi SdMsiZsi yeZsi-

SdM :-

cge, crol, cde, cri

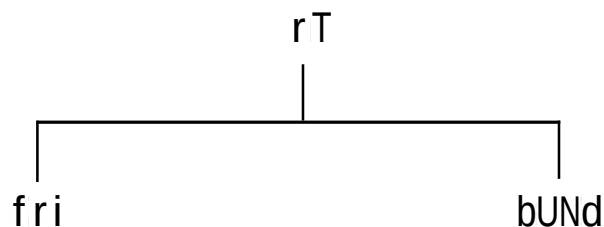
Ige, Irel, Ide, Iri

koKn, koKt, koKki

STn, STt, STki AsinciZb>

mHKki SdMsiZ Asid cge, crol, cde, cri hIbsid 'c' hIb Am, Ige, Irol, Ide, Iri hIbsidn 'I' hIb Am, Adg koKn, koKt, koKki hIbsidn 'koK' Adg STn, STt, STki hIbsidn ST hIb Amdi l tT-tTtn yUb Ure> AhNbgikZIPtgi 'c' Anisbgi kZIPtgi 'I' l0HoKSrg, -ge, -rol, -de AmsZ -ri hIbsiZ Asi Adg AhMsb kZIPtgi 'koK' Adg mrisb kZIPtgi 'ST' hIbsi l0HoKSrgn -n, -t, AmsZ -ki Asi lh0l> mS0l siZ hIbdi -ge, -rol, -de, -ri, -n, -t AmsZ -ki Asidi ArH l tbgMns Uri> AseZbdi mS0l gis ArHdi l> Adb mpZ A0lb nTt rg mrA0lb ArHdi c, l Amdi koK, ST hIbsin f0ZdoKli> 'cge' hIbg 'crol' hIbg Anigi mrKt ArHd SeNnribsi 'c-' hIbsin pirib cbgi ArH hIbdi mpZ A0lb ArH Add cniZbgi mA0Z Amg cniZdbgi mA0Z Amg tKli> Adndi -ge hIbsin crge hIbgi AniZb Ad UTli Adg -rol hIbsin **cb** hIbd t0niZdbgi mA0Z Ad UTli> Adb cbgi mrA0lb ArHdi 'c-' hIb morfiM Asin piri> mrM Asidgi 'c' hIbsi rTni> mt0 AsMn 'I', 'koK' AmsZ 'ST' AhM Asis rTni>

mHKki SdMsiZ Asid 'c-' hIbsi whgi mceT Amni Adg l AmsZ koK AmsZ ST AhMsi wh A0ln lb zMmi> msidgi rT Asi mSL Ani HoKn SldoKp yI> mddi <- fri rT AmsZ bUND rT Asini>



rTki mSL tKp

fri rT <- AtOPp AefiKs nTtrg rTsiZgi mteZ yUdn ms mHNtn wh Aoln lePcb zMb rTsiZ Adb **fri rT** hIn Sn> SdM :- mi, A, cK, fi, IN, U AsinciZb>

mt loNgi fri rTsiZdi nUN zKtni> **I**, **pinciZb** vrb forM Srdis fri rT AolbgMn Ub fzi> mSol siZ Asidi vrbL forMni hIbdi mSol siZ Asidi rT Add vrbL sfiKs Am tPtn seMbni> Adn mSol Asidi $I + I = I$; AhNbgi, **In** I IriKnciZb lbgi **I** hIb rT Adni Adg Anisbgi **In** cI, HKI, AsinciZbd yUrib vrbL sfiKs **I** Adni> **pigi** mtZds AdmzI> $pi = pi + I = pini$ >

bUNd rT <- AtOPp rT nTtrg AefiKssiZgi mteZ yUdn mHNtn wh Aoln lePcb zMdb rTsiZ Adb **bUNd rT** hIn Sn> SdM :- 'cb' nTtrg 'cI' hIb whd yUrib 'c-', 'HKp' nTtrg 'HKte' hIb whd yUrib 'HK-', 'INb' nTtrg 'INge' hIb whd yUrib 'IN-' Asi bUNd r t zKtni> mrMdi mSol siZ Asin mpZ Aolb ArH Ad pirbs mSoln AtOPp morfiMgi mteZ yUdn mHNnt lePcb zMde>

mt loNgi bUNd rTsiZn mSolgi forM kIs hIbdi myMn prTs Aof spic hIn Snb Ad tKp zMde> mSold tPIrib AefiKssiZ Adn mSolgi forM kIs lePpi> SdM :-

$$c + b = cb$$

$$c + ri = cri$$

$$kN + b = kNb$$

$$kL + li = kLli$$

$$kN + n = kNn >$$

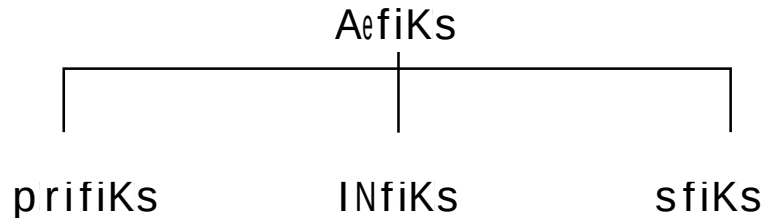
mHKki SdMsiZd yUrib **cb** AmsZ **kNb** Asi nUNni> mrMdi mSold nUNd tPp yb AefiKssiZ Ad tPsiNb ybd nTtn wh preZsiZd nUNn lb zMb mfMsiZ Add lb zMmi> Adg **cri**, **kLli** hIbsin vrbni> mrMdi mSol siZ Asi vrbki mH tIri> Adg **kNn** hIbsidn modifyr Aoln I>

n nb

- 1| rT hIbsi krin0? bUNd rTk fri rTk SeNnb SdM pidn tKU>
- 2| mt l0Ngi rT mSL ky sI? SdM pidn nnrKU>
- 3| mt l0Ngi rTsiZgi mrMd sgIn l rKU>
- 4| mSgi whsiZ Asigi rT SNd0KU-
cb, tKp, cri, tKli, kTli, cMb, cMm, cMde>

2) AefiKs

rT Amd hPciLIKlib nTt rg tPsiLIKlibsiZ Adb **AefiKs** hIn Sn>
AefiKs hIbsi mrA0Ib mSL AhM H0Kn SI d0KI> mddi :- prifiKs, INfiKs
AmsZ sfiKs>



prifiKs <- rT nTt rg steMgi mmZd tPsiLIKlib mor fiMsiZ Adb **prifiKs**
hIn Sn> SdM :-

mhKki **STk** s0KnSi>

nc Ad wrKU>

migi mp0T l0rn>

mHKt piribwhpreZsiZ AsidyUrib **STk, nc, mp0T** hIbwhsiZ AsidyUrib
'ST-' 'n-' AmsZ 'm-' hIb srKsiZ Asi prifiKsni> mS0I siZ Asi rTA0I rib srK-
k, -c Amdi -p0T hI ribsiZ Asigi mmZd tPp zKtni> mrM Adn mS0I siZ Asi
prifiKsni>

INfiKs <- rT Amgi mnZd hIbdi mdgi mrKt hPciNb AefiKsp **INfiKs**
hIn Sn> SdM :-

IjiPsiyN ArbiKt **k-t-b** hIbdi 'Ib' hIbni Adb **ktb** hIrbdi "mhKn
l0ISrb Ibd" Sn> Adg **kitb** hIrgn 'I lriK'p Sn> msid rTki mrKt
hPciLIKlib Amdii....i.... Asi INfiKsni> mt l0Nddi msi lte> kngMbn
'crib' hIbwhsid 'ri' hIbsi 'cb'gi mrKt hPciNbni Adg INfiKsni hIn
hIb yUI> md Sdbdgi hIbni> mrMdi 'cb' hIbsidi rT nTte> rTti 'c'
SKtni> rTki mnZd hPpb INfiKs hIbni> mt l0Ngi mS0In hIrib Addi
sImLfikSni>

sfiKs <- rTki mtZd tPsiLIKlib AefiKssiZ Adb **sfiKs** hIn Sn>

SdM :-

'migi' hIb whd yUrib **-gi**

't0Mbd" hIb whd yUrib **-d**

'cb' hIb whd yUrib **-b>**

'crKp' hIb whd yUrib **rK** AmsZ **p** Asi sfiKs zKtni> mrMdi mSol Asi
rTki mtZd tPp zKtni>

mt loNgi grmrddi sfiKs hIbsin Swldgi mr Aol> sfiKssiZ Asin
mt roNddi INterogesN, negesN, IMpretiPnciZb tKpt nTtn vrbsiZ Asigi
mpZ fb, fdb, loIdri hIbnciZb Ads tKI> mrM Asidgi loN Asid morfoloji
Amdi siNteKs hIdn yMn myeK seZn SIdoKp yde hInribni> sfiKssiZ Asi
mSolgi mHldgi hIbdi mSoln Aolrb nTtrg Aolrb yb mAoZsiZdgi yeZdn Ani
HoKn AmK SIdoKp yI> mddi <- (1) dirivesneL sfiKs, AmsZ (2) INfleKsneL
sfiKs Asini>

dirivesneL sfiKs :- sfiKssiZ Ad tPsiNb mtMd hNn lrmB forM kIs
Add AhoZb pibsiZ Adb **dirivesneL sfiKs** hIn Sn>

INfleKsneL sfiKs :- sfiKssiZ Ad krigMb forM Amd tPsiNSrb mtZd
forM Adgi yUb zMb fivM Add AHiZb lrbdi mdb **INfleKsneL sfiKs** hIn Sn>

sfiKssiZ Asi AmKks mSol mSoln loIndn Ib Adgi yb, ydbnciZbdgi
yeZdn nomineL sfiKs, vrbL sfiKs hIn SIdoKI> nUNd tPp sfiKs hIbdi
kes, INterogesN, nMbrnciZb ShNb sfiKssiZ Asib nomineL sfiKs hIn Sn>
vrbt tPp sfiKs hIbdi IMpretiPnciZb ShNb sfiKsp vrbL sfiKs hIn
Sn> mt loNgi nomineL Amdi vrbL sfiKssiZ Ad mtZd nnrKkni>

nnb

- 1> AefiKs kdIb kIbge? mSL ky sI?
- 2> mt loNd INfiKs lbr? mt loNd Ib AefiKs mSLsiZ Ad SdM pidn tKU>
- 3> mt loNgi grmrd sfiKssiZn krMb HldZ pbge?
- 4> mt loNgi sfiKssiZ Asi kri mrMdgi nomineL Amdi vrbL hIn SIdoKlibno?

3) dirivesN

dirivesN hIbsi ndrizzgi mmZd **forM-kIs** hIbsigi mrMd Srd nnsi>
“kIs” hIbdi kZIP hIbni> Adg “forM” hIbn mAoZ hIbni> AdM AoInmK “forM-
kIs” hIbsid “forM”gi ArHdi mpZ AoIb sKtM Am hIbni> msi wh Am hIbdg
Amhni> forM-kIs Am hIbsin wh kZIP nTtrg sg AmSKki mnZcNb whsiZ
Adbni> sMn hIrbdm si t redisneL grmriyNsiZn “prTs Ao f spic” hIn Snbdni>
whsiZgi bej hIbdi mSoIgi hrKfM AoIribdd AefiKssiZ tPsiNdn toZN-
toZNb wh AoIhNb ybsiZ Adg whsiZ Adggi mrKt Inrib mri Adgi mrMd
nnbb **dirivesN** hIn Sn> Adb tPsiNb SdiZmK dirivesNgi mAoZdi nTte>
dirivesN hIbsi mSL Ani sI> mddi **kIs-ceNjiZ** AmsZ **kIs meNteniZni**>
kIs-ceNjiZ dirivesN hIrg ASoIn AefiKssiZ Ad bejsiZ Add tPsiNb mtMd
whsiZ Adgi hNnn AoIrmB forM kIs Ad HdokIMdn AtOPp forM kIs Amd
AoNSibb Sn> SdM :- cri, cTli, tMmi, kPpi hIbnciZb mt loNgi vrb forMsiZ
Asid ‘b’ hIb sfiKs Asi tpsiLIg “nUN” AoIri> mt AsMn forM kIs Amdgi
AtOPp forM kIs Amd hoZb dirivesNb kIs-ceNjiZ dirivesN hIn Sn>
mt loNgi kIs-ceNjiZ dirivesNgi SdM mSd piri>

vrbtgi <	nUN AoISib <
cri	crib
piri	pirib
Iri	Irib
UIri	UIrib
cTli	cTlib
nTte	nTtb

vrb modifyrdgi nUN kMpUNDgi srK AoISib <

kNn ceLli	kNn ceNb
yMn IPpi	yMn IPp
hIn SoZzi	hIn SoZb

mHKki SdMsiZ Asid 'kNn ceLli', 'yMn lPpi' Amdi 'hNn SoZzi' hI ribsiZsid yUrib 'kNn', 'yMn', 'hNn' hI ribsiZ Asi ceLli, lPpi Amdi SoZzi hI rib vrbsiZ Asigi modifyrni> Adb mSoln ceNb, lPp, SoZb hI rib nUNsiZ Asig pNn mSolgi mmZd lrb mtMddi mSolsiZ Asi nUN frej Amgi srK AoIre Adg nUNgi modifyr AoNSi>

mt AsMn hoZdoK-hoZjiN tlbgi mAoZ Asib kls-ceNjiZ dirivesN hIn Sn> kls-meNteniZ dirivesN hI rg ASoln AefiKssiZ Adn bejsiZ Add tpsiNb mtMd whsiZ Adgi msgi forM-kls Ad hoZdbb Sn> mt loNgi kls-meNteniZ dirivesNgi SdM mSd piri :-

cb - $A + cb = Acb$

Hkp- $A + HKp = AHKp$

lZb- $A + lZb = ArZb$

mi- $mi + no = mino$

hI- $hI + cU = hIjU$ ($hI + cUb$ nTt rg AcIb)

kM- $h + kM = hKM$ ($hNngi + kM$)

kM- $kM + si = kMsi$ ($kM + Asi$) AsinciZb>

mHKt pirib 'cb', 'HKp' 'lZb' AhM Asid A- hIb misk ShNb prifiKs Asi tpsiNb mtMd hNn SnrMlib Ad nTtb Am ShLli> AdM AoInmK nUN AoIndi AdMmK l> AsigMb mSLgi dirivesNb kls meNteniZ dirivesN hIbni>

nnb

- 1> dirivesN hIbsi krino? mSL ky sl? SdM pidn tKU>
- 2> kls-ceNjiZ dirivesN hIbsi krino? msig kls-meNteniZ dirivesNg kri SeNn? SdM pidn tKU>
- 3> mt loNgi kls-ceNjiZ dirivesNgi SdM mtik cn pidn nnrKU>

4) morfofonemiK ceNj

SoNHoKsiZ Asi mSoIgi mmZ nTt rg mtZd IKlib hIbdi Irib SoNHoKsiZ
 Adgi mtZINn nTt rg krigMb mAoZ Srdgi AhoZb nI> mt AsMn hoZbsin mrM
 AoIdn cP mNnb ArH-ceNb wh nTt rg morfiMsiZ Adgi msK SeNnhNb zMmi>
 AsigMb morfiM Amgi toZN-toZnb sKtMb **Aelomor f** hIn Sn> mt loNgi 'cb'
 hIb wh Asid morfiM Ani I> hIbdi msi ArH-ceNb mceT Anin pNdn AoIbni>
 msid 'c' hIb Amg 'b' hIb Amg yUri> AsMn 'cTp' hIb wh Asids 'cT' hIb
 Amg 'p' hIb Amg ArH-ceNb srK Ani yUri> wh Ani Asid 'c' AmsZ 'cT'
 hIbsin rTni> Adg 'b' AmsZ 'p' Ani Asin AefiKsni> **b** AmsZ **p** Ani Asi
 msK SeNnj rbs ArHdi cP mNn> mSoIgi IfMdgi toZN-toZnb msK AoISibni>
 'b' hIbsin voIs sUNDgi mtZd I Adg 'p' hIbsin voIs les stoPki mtZd Ibgi
 wtni> Adn mSoI Ani Asi Aelomor fni>

Aelomor f AoIrkpgi mAoZ Asib **modifikesN** hIns Sn> modifikesNgi
 mrAoIb mAoZ nTt rg mSL Ani I> mddi :- fonolojikeL kNdisN AmsZ morfolojikeL
 kNdisN Asini>

mHKt hISibgMn hIbdi 'c' AmsZ 'cT' Anigi mtZd '-b~-p' hIb Alomor f
 Ani I> msigMn SoNHoKn mrM AoIdn Aelomor f AoIrkpgi mAoZ Asib
fonolojikeLli kNdisN morfofonemiK ceNj hIn Sn> mt loNgi SdM mSd piri <-

(1) -dOK- ~ -tOK- ~ -HoK-; -jN- ~ -cN- ~ -sN-; -gl- ~ -kl- ~ -Sl- Amdi
 -dT- ~ -tT- ~ -HT- AsinciZb>

mHKt piribsiZ Asi Alomor f zKtni> mrMdi mSoIsiZ Asi kMpLimeNt ri
 distribiysNd I> hIbdi Amn Ib zMb fivMd AtOPp Amn Ib zMde> mddi :-

hN + dOK + p	=	hNdOKp
foI + dOK + p	=	foIdOKp
SU + dOK + p	=	SUdOKp
s + dOK + p	=	sdOKp
sT + tOK + p	=	sTtOKp
fK + tOK + p	=	fKtOKp
SP+ tOK + p	=	SPtOKp
sT + tOK + p	=	sTtOKp
kT + HoK + p	=	kTHoKP

$$\begin{aligned}
 l + H_0K + p &= lH_0Kp \\
 p + H_0K + p &= pH_0Kp \\
 z l + H_0K + p &= z lH_0Kp \text{ AsinciZb>}
 \end{aligned}$$

mHKt pirib SdMsiZ Asidgi Ure mddi '-t₀K-' hIbsin Ib zMbsi mmZd lrib morfim Ad AspiresN¹⁰ Amn h₀rg Adg st₀P Amn l₀Mbdni> '-d₀K-' n Ib zMbn mmZd lrib morfim Ad AspiresN Amn h₀rg vol s sUND (vUAL, koNsoneNT nTtrg semi vUAL) Amn l₀Mbdni> '-H₀K-' n At l₀Mh₀rib mfMsiZddmK Ib zMmi> hIrib AsimK -jN- ~ -cN- ~ sN-; -gI- ~ -kI- ~ -SI- nciZbds AdmK H₀KI>

(2) l ~ r

'l' g 'r' gsidi hNn mmZd foniM AmTtgi tozNb mAoZni hISre> 'l' n whgi Ah₀bddmK Ib zMmi Adg 'r' n myl₀ddmK Ib zMmi> SdM <- lZb, lK, lNb, lIn, AsinciZb> mSol siZ Asigi mmZd 'A-', 'm-' nciZb vol s SoNH₀KsiZn AoIb nTtrg l₀Mb prifiKssiZ tPsiNb mtMd Ah₀bd l rMb 'l' siZ Ad 'r' A₀NSi> mddi :-

$$\begin{aligned}
 A + lZb &= ArZb \\
 A + lNb &= ArNb \\
 m + lZ &= mrZ \\
 m + lN &= mrN \\
 m + lNnI &= mrNnI \text{ AsinciZb>}
 \end{aligned}$$

(3) "A" Asin Hnn Ib silebLd Ib zMde> mddgi -l ~ -rgi AtoPp AeIomor f HorKI> SdM <-

$$\begin{aligned}
 t₀Mb + r &= t₀Mbr \\
 l + l &= ll \\
 cK + l &= ckI \\
 z + r &= zr \text{ AsinciZb>}
 \end{aligned}$$

(4) -p ~ -b, -p ~ -b, -t ~ -d, -k ~ -gnciZbgi l fMdi vol s les AmsZ vol s fIneLdgi lePpni> mSol s Alomor f zKtni> SdM <-

10 - mtZ Asid AspiresN hIrg Aspireted st₀Pg gl₀TteL fliketiP 'h' b Snri>

cK + p
 pT + p
 pT + t
 l0K + t
 p0T + k
 yeN + b
 mi + b
 c + b
 l + d
 mi + g AsinciZb>

5> -l ~ -li ~ -pi ~ -mi ~ -wi ~ -y - φ Asi mor fiM AmSKtgi Alomor fni> SdM <-

lK + l p0K + l
 cT + li ceL + li
 lP + pi fM + mi
 h + zi lU + wi
 l + φ c + y
 pi + φ p0 + y

mt0 AsMn -U, -w, -p, -m; -le, -pe, -me; -lo, -po, -monciZbs mSoI mSoIgi
 mor fiMsiZgi AeIomorf zKtni>

mor foIojikeLli kNdisN mor fo fonemiK ceNjdi mt loNd Ub fde> msiddi Alomor f
 AoI rKpgi mrM Ad fo noIojigi mteZn tKP zMde>

nnb

- 1> mor fo fonemiK ceNj hIbsi krino? nnrkU>
- 2> mt loNd Irib mor fo fonemiK ceNj Asi krMb mSLno?
- 3> mt loNd AeIomorf AoIrib -siN, ~ -jiN-, ~ -ciN- gi l fM tKU>
- 4> - U, -w, -p, -n, -l, -y, φ, Asi Alomor fl? mSoIgi l fM tKU>
- 5> lo seNtreL vUAL Asi heK Hnn lb silebL Anid lb zMbr? krigMb lb trbdi kri t0Si?

* * * * *

5) kMpUNd wrd

kMpUNd wrd hI rg mtZ Asid Snribdi **sNDi** Amdi **sms** hIbdni> wh
sgTIKpd whg whg nTt rg whgi mr hIbdi rTk nTt rg rTk rTk pNsiNnb
hIbsis drkr A₀I> AsMn pNsiNb mtMd heK Hnn Ib SoNH₀KsiZ Add Ah₀Zb,
tiNsiNnSib, mZSib nTt rg mNnhNbnciZb H₀KI> AsigMb mA₀Z Asib **sNDi**
hIn Sn> mt loNgi sNDigi SdM mSd piri <-

1> vUAL sNDi

(k) vUAL Ani sNDi t\nbd Am mZSib -

$$\begin{aligned} I + I + I & \quad Ibl + Ibz_0 = Iblbz_0 \\ I + I & = I \quad (IIriKnciZb Ib) \end{aligned}$$

$$\begin{aligned} Ae + I + Ae & \quad I ne + I beMm = I nebeMm \\ Ice + I beMm & = IcebeMm / IceMm \end{aligned}$$

$$A_0 + A = A_0 \quad t m_0 + Ac\|b = t m_0 c\|$$

$$A + A = A \quad s + Amb = sm$$

$$\begin{aligned} A + U & = (A + U) & s + UN & = sUN \\ A + A & = A & Im + AhN & = ImhN \\ A + A & = A & I + AkNb & = IkN \\ U + A & = A & c + AsZb & = csZ AsinciZb> \end{aligned}$$

(s) vUAL Ani sNDi t\|bd msK h₀ZSib -

$$\begin{aligned} A + I & = A & fj + A + I & = fj \\ A + U & = A\| & fj + A + U & = fj\| AsinciZb> \end{aligned}$$

l) sNDi t\|rKp mtMd vUAL nTt rg koNsoneNTki msK h₀ZSib nTt rg mZSib -

$$A + Atd + Ac\|b = tc\|$$

	t d	+	A h L	=	t D N
	l o b	+	A k N b		
	l o b	+	k N b	=	l o g N b
m + A	l M	+	A k b	=	l M g
	l M	+	A s Z b	=	l M s Z
	l M	+	A p i b	=	l M b i
A + m	s	+	m t M	=	s d M
	H	+	m p M	=	H b M
l + m	f i	+	m t P	=	f i d P
U + m	U	+	m t P	=	U t P
	c	+	m s Z	=	c s Z

2> koNsoneNT sNDi

mt loNd koNsoneNT sNDi t r Kp mt Mddi SoNHoKsiZgi mrKt msK hoZSib
nTt rg mZSib yMn HeZngni>

(k) sNDi t r Kp mt Md SoNHoK Ani mNnhNSib -

l + n	l o L + n	=	l o N n
	l L + n b	=	l N n b
n + l	l N + l K p	=	l l l K p
	l N + l M b	=	l l l M b
m + n	p M + n	=	p N n (m p M A o l n)
t + c	k T + c b	=	k c c b
n + m i	l N + m i	=	l N m i
l + m i	l L + m i	=	l M m i>

(s) At-At -

n/l + k	sN/sL + koN	=	sgoN
n/l + S	sN/sL+ SoM	=	sgoM
n/l + p	yeN/yeL + pi	=	yeNbi
n/l + t	sN/sL + tni	=	sNdni
n/l + H	sN/sL + HK	=	sNHK
n/l + d	sN/sL + d	=	sNd (sLd)

3> t₀N sNDi

msib **t₀N-sif** hIns Sn> mt loNgi toN sisteMds toN-sif hIbsi l hIn
mmZd UTSre> (toNgi mtZd toN-sif hIbdd yeZz)>

sNDigi mrMd Srd nnSre> h₀jiK Addi sms hIbd AmK yeZsi> mtZ Asid
sms hIbsin ShLlibdi wh Amgi mnZd rT nTtrg steM nTtrg wh Anidgi
heNn yUb yI hIbsini> AsigMb whsiZ Asi mSoIn A₀l rb forM-kIs Adgi mtZINn
kZIP SI₀KI> Adb mt loNgMb AefiKski mteZn whgi kZIP (forM-kIs) lePp
loNsiZddi mSoI siZ Asigi kZIP SI₀Kpd S₀ZHib kymrM HeZn> Adn mSoI siZ
Asi kZIP SI₀Kpgi mhTt mSoIn yUrib wh nTtrg steM nTtrg rT AdtmK
UTIe> SdM <-

mpZfb wh Ani yUb wh -

$$\begin{aligned}yM-k &= yM + k \\f_0-ceZ &= f_0 + ceZ \\U-w &= U + w, \text{ AsinciZb}>\end{aligned}$$

mpZfb wh Anin tiNsiNnrg AmTt A₀In Ub wh -

$$\begin{aligned}kwKI &= kwK + I \\lg &= lN + k \\tiNjK &= tiN + cK, \text{ AsinciZb}>\end{aligned}$$

mpZfb wh mri yUb wh -

$$\begin{aligned}sp_0T-INp_0T &= s + p_0T + lN + p_0T \\Uri-wri &= U + li + w + li, \text{ AsinciZb}>\end{aligned}$$

mpZfb cP-mNnb whn ridp likeT t₀b wh -

$$\begin{aligned}yM-yM &= yM + yM \\mi-mi &= mi + mi \\n-n &= n + n, \text{ AsinciZb}>\end{aligned}$$

mpZfb wh Amg rT Amg yUb wh -

$$\begin{aligned}kZSN &= kZ + SN \\pNd₀N &= pN + t₀N \\tMpK &= tM+pK, \text{ AsinciZb}>\end{aligned}$$

mpZfb wh Anig rT Amg yUb wh -

$$\text{HZyNfM} = \text{HZ} + \text{yN} + \text{fM}$$

$$\text{sNjeNnh} = \text{sN} + \text{seN} + \text{nh}$$

$$\text{mireNs} = \text{mi} + \text{leN} + \text{s}, \text{AsinciZb>}$$

mpZfb wh Amg rT Anig yUb wh -

$$\text{wrjU} = \text{w} + \text{l} + \text{cU}$$

$$\text{cbKs} = \text{c} + \text{pK} + \text{s}, \text{AsinciZb>}$$

mpZfdb wh Ani yUb wh -

$$\text{AcT-AAK} = \text{AcT} + \text{AAK}$$

$$\text{Ac-AHK} = \text{Ac} + \text{AHK}$$

$$\text{AkN-AH} = \text{AkN} + \text{AH}, \text{AsinciZb>}$$

rT Amg AefiKski mteZn A0ISib wh Amg yUb wh -

$$\text{cTniZzi} = \text{cT} + \text{niZzi}$$

$$\text{cniZb} = \text{c} + \text{niZb}$$

$$\text{cPSIb} = \text{cP} + \text{SIb}, \text{AsinciZb>}$$

rT Anig AefiKski mteZn A0ISib wh Amg yUb wh-

$$\text{cPSIniZzi} = \text{cP} + \text{SI} + \text{niZzi}$$

$$\text{tSIniZb} = \text{t} + \text{SI} + \text{niZb}, \text{AsinciZb>}$$

mpZfb wh Amg AefiKski mteZn wh A0ISib Amg yUb wh -

$$\text{sdNb} = \text{s} + \text{tNb}$$

$$\text{kKtZb} = \text{kK} + \text{tZb}, \text{AsinciZb>}$$

mpZfdb wh Amg mpZfb wh Amg yUb wh -

$$\text{AcHU} = \text{Ac} + \text{HU}$$

$$\text{AUNpT} = \text{AUN} + \text{pT}$$

$$\text{Ac pT} = \text{Ac} + \text{pT}$$

$$\text{AcceZ} = \text{Ac} + \text{ceZ}, \text{AsinciZb>}$$

nmb

- 1> sNDi kdIb kIbge? SdM pidn mt l0Ngi sNDigi mrMd nnrKU>
- 2> sms hIbsi krino? mt l0Ngi SdM pidn sms krino hIbd tKU>
- 3> sNDig smsk kri SeNn? SdM pidn tKU>
- 4> mt l0Ngi sNDi mSLsiZ Ad SdM pidn nnrKU>
- 5> mt l0Ngi whsiZd krM-krMb wh nTt rg whgi srK yUbge? SdM pidn nnrKU>

6) kes

kes hIbsi nUNgi ketegorigi mnZcNb srK Amni> msi wh-preZ Amgi mnZd yUrib nUN nTtrg nUNgi kZIPsiZ Adg At whpreZ Adgi srKsiZ Adg Inrib mri Adb UTlib Adbni> sMn hI rbd whpreZ Amd yUrib nUNsiZ Adg At whsiZggi mrKt Inrib mri Ad UTlibdb **kes** hIn Sn> sskriT, griKnciZb loNd lbgMn mtloNd kes hIbsi lte> msin mrM AoIdn mtloNd kes lte hIbdi nTte> mtloNd kes mSL trKSK l hIn lln> mSol siZ Addi - (1) nominetiP, (2) Aekyjet iP (3) INstrmeNteL, (4) jenitiP, (5) prtiklrljesN AmsZ (6) loketiP Asini>

(1) nominetiP <- sbjeKT Snb kesp nominetiP kes hIn Sn> msi tKnk kes mrkrdi 'n' ni> Adb msi yUdrbs yI>

SdM<- cUbn cK cI>

A cK cI>

rMn toMb fI>

cUb cK cI>

mHKki SdMsiZ Asid 'cUbn', 'A', 'rMn' AmsZ 'cUb' hIrib whsiZ Asi sbjeKT zKtni> Adg mSol siZ Asi nominetiP kest lb nUN zKtni> msidgi Ub fle mddi 'n' hIbsi tPIbs tPtrbs nominetiP kest AdMmK lb yI>

(2) Aekyjet iP <- AobjeKT Snb kesp Aekyjet iP kes hIn Sn> msi UTnb kes mrkrdi 'b' hIbsini> Adb msi tPtrbs yI> SdM<-

toMb cUbn fI>

cUbn toMbb fI>

A cK cI>

cUbn toMb kIri>

mHKki whpreZsiZd yUrib 'toMb', 'toMbb', 'cK', 'toMb' hIribsiZ Asi AobjeKT zKtni> 'b' hIbsi Aekyjet iP mrkrni> Adb msi yUdb AobjeKTs l Adn 'b' Asi yUb yUdb yeZdn AobjeKT AoIn lrib nUNsiZ Ad Aekyjet iP kest lb nUN zKtni>

3) INstrmeNteL <- HbK Ad pZHOKpd STII AoIn sijiNrib Adb

INstrmeNteL hIn Sn> AdgMb fivMd Irib nUN Adb INstrmeNteL kest Ib
nUN hIn Sn> SdM<- toMbn HZn U yLIi>

cUbn STn cK cI>

m cn fSi>

An kIMn pr I>

mHKki wh preZsiZd yUrib HZn, STn, cn, kIMn, hIribsiZ Asi
INstrmeNteL kest Ib forM zKtni> INstrmeNteL kestdi 'n' hIbsi yUdb
yde>

(4) jenetiP <- msib posesiP kes hIns Sn> loInb Snb kesp posesiP
nTtrg jenetiP kes hIn kn> msi tKn b mrkrdi '-ki ~ -gi' hIbsini> msidi
soIdnmK yUdb yde> SdM <-

msi AhKki kIMni>

msi toMbg i yMni>

mg i I IriK piro>

mHKki SdMsiZd yUrib '-ki' '-gi' loInb hIbdi AhKki, toMbg i, mg i hIb
whsiZ Asi jenetiP kest Ib forM zKtni>

(5) prtiklrljesN <- Asini hIb nTtrg AkKn b msK tKp kesp
prtiklrljesN kes hIn Sn> mt loNgi '-t', nTtrg 'd' Asi prtiklrljesN
kes ShNbni> SdM<-

An cKt cbni>

mhKn HbKt t\l bni>

mhKn cbd hUgdb mLIi>

rMd mhKn IKn b hI Sibni>

mHKt pirib SdMsiZ Asid cKt, HbKt, cbd, Amdi rMd hIb whsiZ Asi
prtiklrljesN kest Ib zKtni>

(6) loketiP <- IfM nTtrg mfM tKP kesp loketiP kes hIn Sn>
mt loNd '-t' nTtrg 'd' tPtn loketiP kes ShLIi> SdM:-

A IMfLd I>

mhK kHeNd cTSi>

ASoIdm IKI>

kd kn kn I?

mHKt pirib SdMsiZ Asid yUrib IMfLd, kHeNd, ASoId msZ kd hI rib
whsiZ Asi loke tiv kest Ib zKtni>

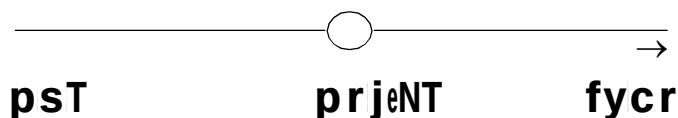
mHKt piribsiZ Asi mt loNd Ib kessiZni> mt loNd letiN, griK,
sskriTnciZb loNd lbgMn kes Asi lte> Adg keski mtZINn INfleKT tde>
mrM Asidgi kes hIbsi nUNgi ketegorigi mnZ cLIbs INfleKsneL ketegoridi
nTte>

n nb

- 1| kes kdIb kIbge? mt loNgi keski msK tKtn IrKU>
- 2| mt loNd kes ky Ibge? nnrKU>
- 3| mt loNgi kes mrkrsiZd kri krino?

7) tēNs

tēNs hIbg tIM hIbg SeNn> AdMnmK AōIdns Ani Asigi mrKt yMn
nKnb mri I> tēNs hIbsin UTlibdi HōdoK Amb zZlib mtMdgi tozN-tozNb
tZkKt yeZbdni> mrAōIb tēNs mSL AhMSK I hIn Iōn> mSōIsiZ Addi psT,
prjeNT AmsZ fycr Asini> Adb mSōIsiZ Asi IōN SdiZmKt Ite> psT,
prjeNT AmsZ fycr hIbsi myeK seZn UTnbgidmKt ASōIn IhN hNbd 'hIjiK'
hIb mtM Amb hNn IePp tI> msigi poINT Aof tIM Asib **prjeNT** hIn
Sngni> Adndi HōdoK Ad hIjiKmK HōKli hIbdi zZlib mtM Adg IroInn cTli>
msigi mmZd HōKSib HōdoK Adb **psT** Adg msigi mtZd HōKIKkdbsiZ Adbn
fycr hIbsini>



mtIōNd tēNs Asi griK, letiN, sskriTnciZb IōNsiZd IbgMn Ub fde>
Adg tēNs Asi wh Atgi mteZn UTli>

SdM:-

A zrZ kHeL kI>
A zsi kHeL kI>
A hIjiK kHeL kI>
A hyeZ kHeL kgni>
m zrZ mōI rZ cTli>
m zsi mōI rZ cTli>
m hIjiK mōI rZ cTli>
m hyeZ mōI rZ cTkni>

mHKki wh preZsiZ Asi tozN-tozNb mtMd Ib wh preZsiZ zKtni>
'zrZ' hIb Asi yUb whpreZsiZ Asin hIbsi mtM psT tIM ShLli> Adg
'hIjiK' hIb wh Asi yUb whpreZsiZ Asin prjeNT tIM hIbdi hIjiKki mtM
Ad ShLli> Adg 'hyeZ' hIbsi yUribsiZ Adddi tZd IKkdb HōKt rib HbK Ad
hIbdi fycr tIM ShLli>

mtZ Asid mt loNgi hNndgi SnrKlib pST, prjeNT AmsZ fycrgi
AefiKssiZgi mrMd Srd pNb drkr l> teNs nnb mtMd **AspeK** AmsZ **modeliti**
hIb Ani Asi Hdokp yde> AspeKki mtZddi mtZd AspeKki pNdPt nnrKkni>
Adb modelitigi mrMddi Srd pLli>

modeliti hIbdi AcMb, soldb, negesN, prohibisN, Anizb, ApMb,
bybhrnciZb foZdoklib Adbni> mt loNgi vrb sfiKs -Si, -n, -de, -s, -HoK, -pi,
-rnciZb Asi modeliti ShNb sfiKs zKtni> mt loNgi 'csiNmiNnbirSinneko'
hIb ws Asid **c** hIb rT Asid tPsiLIKlib sfiKssiZ Asi modeliti ShNb
sfiKs zKtni> msid teNs nTtrg AspeK mrkr AmTt yUde> Adb HbK Ad
pZHoktri hIbdi UTli> msidi 'r' hIb sfiKs Asigi mrMnni> HbK Ad
pZHoknbgidmK cTpgi HbK Am drkr l> cTtrib hIbdi Hldrib Ad
pZHoktribnin pZHokte hIbd Ub fbni> kngMbn -Si hIbsi pST teNs ShNbni
hI Adb -Si hIbsidi difinitip hIbdi soldb ShNb modeliti mrkrni>

msidgi mt loNgi teNs Asi sfiKssiZgi mteZn UTP zMde, msidi wh
Srgi mteZn UTli hIb yl> mt loNgi cI, cTli hIbsi INfiniti ShNbni> krMb
mtMdgi hrKpno kyM kIn ISigdge hIb AkKnB mtM pib zMde> mt **AsMn**
'cri' hIbsin ShLlibdi cTHri hIbni> msis kyM kIn cTHSigni hIb AkKnB
tKp zMde> MSolisiZ Asis AspeK mrkr zKtni> teNs mrkr nTte> mdgis
mHKt mSolisiZ Asidi wh AmTtd Ani AhM pNn yUb zMmi> mSolisiZ Asi
teNs mrkr Aolrdbi Ani AhM pNn yUb zMfM HoKte> hIbdi pST, prjeNT
AmsZ fycr AhMmK wh AmTtd loIn tPsiNdn whpreZ Amd Ib hIbsi
AolHoKte>

mtZ Asid teNsk tIMg Anigi SeNnb nnb yMn drkr Aol> tIM hIbsidi
mhlsigi Aoln leZdn Ib poT Amni> msidi mHKt hISibgMn tIM AedvrbiyeLsiZns
tKp yl nTtrg mrNnl whsiZn foZdokcb yl> sMn hIrbd zsl, zrZ, nhL,
zlhKki mmZd, mmZzd, HInzd, hIbnciZb Asidi pST tIM ShNbni>

teNs hIbsidi vrbki mtM tKp grmtikeL Aolb srK Amni> msigidi
mrkr Ib tI> Adg mrkrsiZ Ad mfM, mtM nTtrg wh-wh SeNnbggi mtZINn

SeNnbdi yroI> prjeNT teNs mrkrdi mtM pMnmKt prjeNT tKkdbni> msig
psT nTtrg fycr teNs mrkrgr pNn wh preZ nTtrg wh Amd yUmiNnbdi
yroI> mt loNgi AedvrbieLs Aof tIM hIbdi teNs ShNb whsiZ Ad kri krino?
mrkrgr pNn lmiNnb yde> teNs mrkrsiZ Asi AspeK nTtrg modeliti
mrkrgrdi pNn yUmiNnb yI>

n nb

- 1| teNs hIbsi krino? msig tIMg kri SeNn?
- 2| mt loNgi AedvrbieLs Aof tIM hIbdi teNs ShNb whsiZ Ad kri krino?
- 3| modeliti hIbsi krino? msin kri tKpge?

8) AspeK

AspeK hIbsi vrbk loIndn Ib mSL Amni> msin tKlibdi HbK Ad loISrbr loIdribr nTtrg krMb fivMd Iribge hIbd tKpni> mtM tKp nTte> INfinitiP (AkKnB ltb), kNtiniUtIP (cTHrKlib), kMplitiP (loISrb), nN-riAelIjesN (pZHOKtrib), kojEsN (tIhNb) AsinciZb SnbsiZ Asi AspeK zKtni> SdM - 'cI', 'cTli', 'tI' AsinciZb forMsiZ Asi INfinitiPni> mrMdi krMb mtMdgi hI Si Amdi ky kIn cTHSigni hIb Ad knns hIb zMde> 'cri', 'pIri' AsinciZb forMsiZ Asi kNtiniUtIP AspeKt Ib forMni> mrMdi 'A cK cri' hIbsid AhK hIjiKmKti cK cbgi HbK Ad tIri Adb krMb mtMd loIgdge hIbdi tKp zMde> Adg HbK Addi hNnn hISrbni> 'cre', 'toKle' AsinciZb Asi kMplitiP Snbni> msin tKlibdi kMplitiP hIbdi loIrb riyelIj tIrbni> HbK Ad pZHOKSre hIb tKpni> mtI AsMn 'cTke', 'cge' hIbsin pZHOKtrib tIdrib hIbdi nN-riyelIjesN AspeK tKpni> sMn hIrbdi HbK Ad pZHOKtri loInn pZHOKtbs yUI> krigMb HbK Am tIhNbb kojEsN hIn Sn> 'chLle' hIbsid yUrib 'hL' Asin pZHOKp Ad HINsiN yUI hIb UTli> Adb 'hL' Asi AspeK AoI rbs mtIoNddi ciZnnizI AoI> mrMdi 'hL' hIbsi mtIoNgi hNn, hNb hIbnciZbd yUrib hN Asig simNtiK rilesNsiP lbgM Ub fzi>

AspeKk teNsk Ani Asi yMn sglN nnb mtIoNgidmKtdi drkr AoI> teNs hIbsin mtMb grmtikeLli mrK tIdn tKpni Adg AspeK hIbsidi mtM tKp ntTe> msidgi Ani Asi SeNn hIbsi Ub fle> hNndgi InrKlib 'I, -li, -re, ge, -le' hIb teNs mrkrni hInribsiZ Asi AspeK mrkr zKtni>

nbn

- 1> AspeK kdIb kI? SdM pidn tKU>
- 2> AspeKk modelitig kri SeNn? SdMn slgTtn UTI>
- 3> AspeKn ShLlibsi krino? mtIoNd fb AspeK Srgi msK mmiZ tKU>

9) prsN

prsneL prnUN mSL AhM Adb prsN hIn Sn> zZlib mi Adbn frsT
 prsN Adg trib mi Adbn sekeNd prsN Adg mgi mrMd zZnrib mi Adbn Hrd
 prsN hIn Sn> mtloNddi prsN Asi prnUNsiZddmK l> mtloNd siZglr
 Amdi plreL hIbdi Amdgi heNb ShNb AnimKt prsneL prnUNsiZd prsN
 AhMmK l> msi tebL Amd mSd UTli>

prsN	siZglr	plreL
frsT prsN	A/AhK	ASol
sekeNd prsN	n/nhK	nSol
Hrd prsN	m/mhK	mSol

prsneL prnUNsiZgi sekeNdri forMsiZ l> msi plreL forMddi yMn
 myeK seZn Ub fzi> mSolsiZ Addi frsT prsNd 'l/A', sekeNd prsNd 'n'
 AmsZ Hrd prsNd 'm' ni>

A cK cI, A kHeNd cTli hIbsid zZlib Ad A ni> n cTlo, n fMm hIbsid
 An zZlibdni Adg nn tribdni> Adg m zrZ IKte, mhK IKkni hIbsid mhKki
 mrMd zZnbni> m nTtrg mhK zZbs Aolde Adg tbs Aolde>

mHKt piribsiZ Asidgi Sle mddi A / AhK hIbsin w zZlib mi Adni
 Adg n / nhK Asin Atb mi Adni AmsZ m/mhK hIbsin mhKki mrMd zZnrib
 mi Adni> mtloNddi llist tbgMn nMbrgi mtZ lNn vrbt lNfleKT tde>

mtloNgi prsneL prnUNsiZ Asi 'kiN' hIbdi mrimtgi mtZddi
 lNAeliniAebL pojesN hIbdi pojesr Adg HdoKnB ydn l> SdM - 'A' hIb
 trbdi lM, lP, lyMb, lNu, lce, lP hIb kiN trMsiZ Asid 'l' hIb frsT
 prsNgi sekeNdri forM Asi soldn yUdb yde> *Agi nm, *Agi mm nTtrg
 *Agi nyMb nTtrg *Agi myMb hIbsi cTnde> mtlo AsMn 'ngi hIrbdi soldn
 nm, np, nyMb, np AsinciZb Sn> 'mgi' mtZds cP mNn hIb yI> mddi 'mgi'
 hIrbdi mgi mm, mgi mp AsMn hIn> *mgi lM nTtrg *mgi nm hIbsi cTnde>

AdgMn *ngi Im *ngi mm hIbsis cTnde>

n nb

1> mt l0Nd prsN ky l? kri krino?

2> mt l0Ngi prsneL prnUNsiZg kiN t rMsiZg Hd0Knbyde hIbd SdM pidn
t kU>

10) wrd kls

wrd kls hIbsi t redisneL grmriyNsiZn prTs Aof spic hInb Adni>
grmr nnb mtMd whsiZb kZIP SIdoKtn msK mmiZ tKtn nnb hIbsi t zIfde>
t redisneL grmriyNsiZn wrd (wh)b ArHdgi yeZlg msK mmiZ tKIMmi Adb
modrN grmriyNsiZn msidi cMdbni hIn lI> mSoln whsiZ Adn lIb zMb
AefiKssiZ Adgi mteZn whgi kZIPsiZ SIdoKI> trNsformesneL
grmriyNsiZn whb kZIP SIdoKp t redisneL Amdi strKcreL grmriyN
AnimKki mT Ad lIsiLi>

mt lONgi mrAoIb wrd kls ti nUN, vrb, modifiyr (AedjeKtiv, Aedvrb),
prnUN (nUN-sbstityT), kNjsNAmsZ sbsteNtiPs AsinciZb Asini>

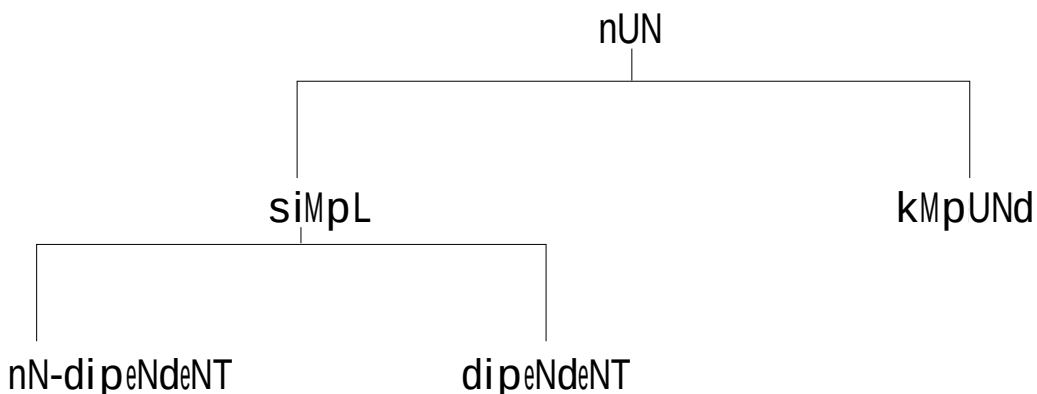
nUN :- mt lONd, nUN hIbsi mSoln whpreZsiZd lrb fivM Amdi mSoln
lOlIndn lIb zMb AefiKssiZgi mteZn tKp zMmi> whpreZ Amd **sbjeKT** nTtrg
AobjeKT AoIn lIb zMlIb Amdi mSd pirib AefiKssiZ Asigi mnZdgi Am nTtrg
Amdgi heNn lIb zMb forMsiZ Adb nUNni hIn lIgni> AefiKssiZ Addi :-

- A - : prsnifyr ShNb prifiKs
- A- ~ I- : frst prsN pronomineL prifiKs
- n- : sekeNd prsN pronomineL prifiKs
- m- : Hrd prsN pronomineL prifiKs
- m- ~ ST - : meNnr / mod ShNb prifiKs
- n : AejeNT / AeKtr / INstrmeNT Shnb sfiKs
- p ~ -b : peseNT / risivr ShNb sfiKs
- t ~ -d : loketiv ShNb sfiKs
- ti ~ -di : prtiklrljesN ShNb sfiKs
- t ~ -d : dimoNstretIP ShNb sfiKs
- k ~ -g : lOlInb ShNb sfiKs
- ki ~ -gi : jenetiP / posesiP ShNb sfiKs
- l ~ -r : InterogesN / wh ShNb sfiKs
- t ~ -d : AlsolletiZ ShNb sfiKs
- s : ALso / lOlInb ShNb sfiKs

-si : dimoNst ret iP ShNb sfiKs
 -siZ : plreliti (Amdgi heNb) ShNb sfiKs
 -Sol ~ -hol : klektiviti ShNb sfiKs
 -mK : prsnifikesN ShNb sfiKs
 -ni : kopl / kopletiP vrb
 -ne : AldeNtifyr ShNb sfiKs
 -b ~ -p : nomineI l jr ShNb sfiKs

nUNgi rT nTtrg forM SdiZmKn mHKt pirib AefiKssiZ Asi loInMK
 lOb zMde hIbdi tPnb ydbs yUI> Adgis mHKt AefiKssiZ Asi pNn lmiNnb
 ydbs yUI> Ad Aol rbs mSol siZ Asi nUN AefiKs zKtni>

mt loNgi nUNsiZ Asi mSolgi mnZd yUrib srKsiZ Adgi mtZINn mSL
 Ani HoKn SIdoKI> mddi - (1) siMPL nUN, AmsZ (2) kMpUND nUN, Asini>
 siMPL nUNsiZ Asi AmKks nN-dipeNdeNT AmsZ dipeNdeNT hIn AniHoKn
 SIdoKI>



(1) **siMPL nUN** :- forMsiZ Add mSd pirib fivM AhM Asigi mnZdgi AmTtb
 lrbdi md siMPL nUNni hIn lI> mSol siZ Addi :-

(k) forMsiZ Adn AefiKssiZgi mteZ yUdn mHNt wh Aoln nUNgi mHl tOb
 zMIb, SdM Aoln : **mi, z, toMb, yM**, AsinciZb>

(s) forMsiZ Adn prifiKski mteZ lIrg wh Aoln lb zMIb, SdM Aoln :-
STk, mc, mHoZ, AsinciZb>

(l) rTsiZ Add -b ~ -p tPsiLIg wh Aoln lePp zMIb Amdi nUNgi
 AefiKssiZ lOb zMIb, SdM Aoln :- cb, HKp, cSib, AsinciZbsiZ Asini>

mHKt pirib fivM AhM Asigi mnZdgi AhNbgi (k) d yUrib kZIPki
 nUNsiZn nN-dipeNdeNTni Adg (s) AmsZ (l) d yUribsiZ Adn dipeNdeNT nUNni>

nN-dipeNdeNT nUN :- AefiKski mteZ yUdn wh Aolbt nTtn nUNgi mHl tlb zMb Amdi nUNgi AefiKssiZdi tPsiNb ybsiZ Adb nN-dipeNdeNT nUN k/I> SdM :- mi, IsiZ, toMb, AsinciZb nUNsiZ Asid mHKt pirib nUNgi AefiKssiZ Asi tPsiNb yI> mddi :-

mi + b	IsiZ + b	toMb + b
mi + d	IsiZ + d	toMb + d
mi + n	IsiZ + n	toMb + n
mi + gi	IsiZ + gi	toMb + gi
mi + g	IsiZ + g	toMb + g
mi + d	IsiZ + d	toMb + d AsinciZb>

mi, IsiZ, toMb, AsinciZbn mHnt wh Aoln whpreZsiZd lePcbgi SdM :-

mi lolnmK cTSre>
 IsiZ yMn cUre>
 toMb cK cre>
 cUbn IsiZ HKI> AsinciZb>

dipeNdeNT nUN :- AefiKssiZgi mteZ yUdn nUN Aoln lb zMdbsiZ Adb dipeNdeNT nUNni hIn lIn> mSolsiZ Addi :- ST + k, m+c, m + HoZ, c + b, cT + p, AsinciZb Asini>

mSolsiZ Asid At nUNgi AefiKssiZs tpsiNb yI> SdM :-

STk + d	mc + d	cb + d
STk + si	mc + si	cb + si
STk + r	mc + r	cb + r
STk + ni	mc + ni	cb + ni AsinciZb>

(2) kMpUND nUN :- forMsiZ Ad nUN nTtrg nUN Amg At forMsiZg pLIg nUN AolbsiZ Adb kMpUND nUN hIn Sn> kMpUND nUN Asi mSoid yUrib srKsiZ Adgi mtZINn mSL 6 (trK) HoKn AmKks SIdoKI> mSolsiZ Addi :-

nUN + nUN :-

cK + s
koN + HoZ
U + h
yoT + c
fi + sb
U + sb
HoZ + zKp AsinciZb>

nUN + nUN + nUN :-

cK + s + sb
koN + HoZ + seMb
U + h + yoNb AsinciZb>

nUN + rT :-

w + h
l + rM
SoZ + lol
fi + jeT AsinciZb>

nUN + AogmeNT :-

hI + jU
yM + jU
l + cU
HoZ + jU AsinciZb>

nUN + dimyni tiP :-

hI + nU
HoZ + nU
sN + nU
yeN + nU AsinciZb>

nUN + deKoretiP forM:

smZ + HeIoZ
yenS + IKS
npi + nrZ AsinciZb>

nUN hIbsi AefiKssiZgi mteZn tKp zMmi hIbd mHKt UTSre> Asids
nTtn nUN hIbsi whpreZ Amgi mnZd mSoIn lrb fivMdgis tKp zMmi> SdM :-

tMb cK cI>
cUbn tMb fI>
mhK cb hre>
mni kHeL kI>

mHKt pirib whpreZsiZd yUrib tMb, cUb, cK, cb, mni, kHeL
AsinciZbsiZ Asi sbjeKT nTtrg AobjeKTKi IfMd lrbn nUN zKtni>

vrB:- tredisneL grmriyNsiZn vrb hIbsi tMb Alb, lb, AsinciZb ShNb
whbni hIn lIn> strKcreL grmriyNsiZn mSolgi mAoZ mt Amdi IfMdgi
yeZlg msK tKI> Adg trNsformesneL grmriyNsiZn mSolgi mH, IfM AmsZ
ArHdgi yeZlg vrb msK tKI>

mt loNdvrbsiZ Asidi AefiKssiZ nTtrg kMpUNdiZ tlg seMb modeliti
Amdi AspeK mrkrsiZg loIndn lb zMb forMsiZ Adni> mt loNgi vrbsiZ
Asin AefiKski mteZ lIdns teNs ShNb zMde> vrb rT pMnmK bUNd rT
zKtni> Adg rTsiZ Asin wrd kls tKp zMde> mSolg loInrrib AefiKssiZ
Adgi mteZn mSolgi wrd kls lePpi> SdM :- 'c' hIb rT Asid 'l' hIb sfiKs
Asi hPciLlg 'cl' hIbsi vrbni, Adb 'c' hIb rT Asid 'b' hIb sfiKs Asi
tPsiLlg 'cb' hIbdi msi nUN AoI re>

bUNd rTsiZd mSd pirib sfiKssiZ Asi tPsiLlg AoIrkP forMsiZ
Ad mt loNgi vrbni> sfiKssiZ Addi :-

-l, -li, -le, -ke, -lM, -lK, -lK, -Si, -te, -lOl, -U, -lO, -lO, -l, -n, -S0, -s, -si,
-n, -pi, -c, ne, -ko, -bol, -hN, -h, -sN, -HoK, -ST, -SI, -HT, -miN, -mN
AmsZ -H, Asini>

mHKt pirib vrb sfiKssiZ Asi Amdgi heNn rT Amd tPsiNb yI>
Adb mSoln lb zMb fivMdgi yeZlg mSL mri HoKn SldoKp yI> mddi (1) rTk
hek Hnn lb zMb sfiKssiZ, (2) AroIb, hIbdi fIneL pojisNd lb zMb sfiKssiZ
AmsZ (3) fivM pMnmKt lb zMb sfiKssiZ Asini> sfiKssiZ Asigi ArH
Asi Atopp sfiKs Am tPlbtd heNn seZn UTp ybs yUri> vrb sfiKssiZ

Asin ShLlib Ad SdMg koNnn mSd UTli> mddi :-

-l-

msin hebicyeL hIbdi mtM pMnmKki A0Ib nTtrg ItT-tTtn HoKp,
INfinitiP hIbdi pS nIdb, stetiP hIbdi leZdn Ib nTtrg AcMb
Am ShLli> mddi :- c + l = cl, l + l =l hIbsin ShLlibsi mHKt
piribsiZ Asigi mnZdgi Amdi soldre> A cK cl, hIbsin tKlibsi
A ItT-tTtn cK cbs A0Ib yI, nTtrg An cribsi krMb mrMdgin
Adg kyM kIn cSigdge hIb AkKnB Am tKp zMdb A0Ibs yI nTtrg
A cK cdn hiZb mi A0Ibs yI nTtrg An cK cl hIbsi tseZbni hIb
tKps A0Ib yI> -l hIbsigi AeIomor f Srs l> mSol siZ Addi -l ~ -
li ~ -pi ~ -mi ~ -wi ~ -zi Asini>

-li -

msi mHKki AeIomor ft yUrib 'li' Asig SeNn> Asids nTtn msigi At
AtOpP AeIomor fsiZg fonemikeLli mNnb l rbs mSol Ad homofonj forMni>
homofonj hIbdi SolhI SoNHokti cP mNnb ArHdi SeNnb AdgMb forMsiZ
Adbni> '-li' hIbsin tKlibdi kNtinAetiP hIbdi HbK Ad AsM cTHrKli
hIb tKpni> hIbdi HbK Ad cTHri hIbni> A cK cri, mhK kHeL cTli,
toMb kNn ceLli, msid cbgi, cTpgi, ceNbgi HbK Ad cTHri hIbdi tIdn
lri hIbd UTli> msin tKlibdi HbK Ad loIdri hIbsini> msigi
AeIomor fti - ri ~ -mi ~ -zi ~ -wi ~ -pi ~ -r ~ -m ~ -z ~ -p ~ -l Asini>

-le-

msin kMplitiP nTtrg riyel IjesN hIbdi HbK Ad pZHokSre nTtrg
tISre hIbd ShLli> A cK cre, md lsiZd IPle, msid cre, hIbsid cb
Ad lolre hIb tKli> Adg IPle hIbsin IPpi hIbd Sle hIb tKli>
msigi AeIomor fti -re ~ -me ~ -pe ~ -ze ~ -Ae Asini>

-ke-

msidi INteNtiP hIbdi AnizB HbKti pZHokt rib hIbdi nN-
riyel IjesN ShNb sfiKsni> A cK cge, A yMd cTke AsinciZb Asid
yUrib cge Amdi cTke hIbsin HbK Ad pZHokt ri tIge hIn niZb Ad
fUbdi ShLli> msigi -ge ~ -g ~ -k hIb AeIomor fsiZ l>

-IM-

msin tKlibdi HbK Ad hNn hŕMle> Adb ArePp ArHdi mtZd IKp
sfiKs '-li' nTt rg '-le' n ShLli> HbK Ad hNndgi tŕdn AsM l rMl bdi
'tŕMli' Adg hNnn hŕSib HbK Ad lŕl rMl bdi "tŕMle" hŕbsin ShLli>
Adb hŕjiKti tŕdre> msigi -rM ~ -zM ~ -mM ~ -pM hŕb AelomorfsiZ
l>

-IK-

msin tKlibdi HbK Ad hNnn hŕMle nTt rg hŕjiK hŕrKle Adb HbK
Ad lŕldri> msid cyetnb HoKtnb yMn ceKsiNgdbdi 'IK' Asi Ani
sl> hNndgi tŕdn l rMl b HbKtdi msigi '-li ~ -ri' hŕb sfiKs Ad
nTtn At tPp yde> mrMdi cTHri hŕb ShNb tbni> hŕjiKt hŕgdb
mtZd msin 'le ~' re- hŕb sfiKs Asig lŕl nn l b yl> msigis -rK ~ -
zK ~ -mK ~ -pK hŕb AelomorfsiZ l>

-IK-

msidi IKpg mri ln> 'crKle' hŕbsid crg IKle hŕbd ShLli> msigi
-rK hŕb Aelomorf Am l>

-Si-

msin ShNlibdi difini tiP hŕl bdi soldre hŕb Adni> 'cSi', cTSi hŕl r bdi
soldnmK 'cb', 'cTp' hŕb Hbk Ad tŕSre hŕb tKpni> msigi 'S' hŕb
Aelomorf Ams l>

-te-

msidi negetiP ShNb sfiKsni> 'cde', 'cTte' hŕbsid 'cb' Amdi 'cTp'
hŕb HbK Ad tŕde hŕb ShLli> msigi 'de' hŕb Aelomorf Am l> lŕl nn -
'te', n - 't' Adg - 'de' n - 'd' AŕNbs l> SdM :-

$$cTte + b = cTtb$$

$$cde + b = cdb \text{ AsinciZb>}$$

-lŕl-

msis negetiP ShNbni> Adb msiddi AniZb hŕl bdi INteNsN yUri>

msigi -roI ~ -moI ~ -zoI ~ -poI hIb AelomorfsiZ I> msig loInn Ib
mtMd '-li ~ -ri' hIb AsinciZb sfiKssiZ Asi '-I ~ r' nciZb A0NSi>

-U-

msi IMpretiP hIbdi yH pib, Hdb Snbni>

-I0-

msis Hdb, yH pib, ShNbn Adb msig 'U' g SeNribdi SdKt pZH0KU
hIb yMn kNsiNb Am yUn ShNbn> msigi -ro ~ -mo ~ -po ~ -zo hIb
AelomorfsiZ I>

-I0-

msi mHKki '-lo'g SeNn> msidi kjb hIbdi br tN tdb ShLli> IKlg
HbK Ad trnb ShNbn> msigis -ro ~ -mo ~ -po ~ -zo hIb AelomorfsiZ
I> msigi mmZd yUrb mtMd -re ~ -le ~ -pe ~ -ze ~ -me nciZbsiZ Asi
'-r ~ -l ~ -m ~ -p ~ -z' n ciZb A0NSi> Adndi - 'r ~ -l' nciZb Asis
homof0Nj forM A0lri>

-I-

msi Hdb Snb sfiKsni> Adb msiddi HbK Ad At0Pp mfM Amd cTlg
pZH0Kp tI> msig -'r' g AmTtni>

-n-

AHiZb hIbdi prohibisN Snb sfiKsni>

-n-

msidi tIsn, csN hIbnciZbd yUrib 'n' Adni> msidi wis tdb hIbdi
mgL pibgMbd sijiNn>

-S0-

msis IMpretiP mrkrni> AdMndi A0lrg msin tKlibdi HbK Ad
loIsNdn tidn IS0 hIb tKpni>

-S-

msidi benifeKtiP hIbdi kNnbd AtOPpn fjsn hIbni>

-si-

msis benifeKtiP ShNb sfiKsni> Adb msiddi kNnbd zZlibds yUn
fmiNnbgj wni>

-n-

msidi resiprokeL hIbdi kNnmiNnbgj mAoZni> $c + miNn + b = cmiNnb$
hIbsid yUrib '-n' Asini>

-pi-

msidi hIjb, noNjb, bybhr tIb Snb sfiKsni> msin '-U' hIb ImpretiP
ShNb Adg ImiNnb mtMddi bybhr UTli Adg '-ge ~ -ke' hIb nN-
riyel IjesN ShNb sfiKs Adg ImiNnb mtMddi HAoI-UsiTtb ShLli>
cbige, cTpige, AsinciZb> '-bi' Asi msigi AeIomorfni>

-c-

msis nN-riyel IjesN ShNb sfiKsk ImiNnb mtMd hIjb, noNjb, bybhr
ShNb sfiKsni> Adb msidi tIjge, cTcge, hIn foZdoKcb mSLni> -
'pi'gi AoNn-tnbd msin IMpretiPk ImiNnr rdbi HAoI-UsiTtb ShLli>
'j' Asi msigi AeIomorfni>

-ne-

msidi dikIretiP ShNbni> tIrene, crene hIbsid yUribsini>

-se-

msidi sjestiP nTtrg solisitesN ShNbni>

-boI-

ciZnb, tIb Sdb foZdoKpd '-boI' Asi sijiNn> msigi 'poI' hIb AeIomorf
Am I>

-hN-

kojesN hIbdi HbK t^hNb ShNb sfiKsni> kngMb Amd HbK Ad soIdn
pZH^hKhNb Adb Sn> msi rT A^hIn I^hbs yI>

h^h-

h^hSib Snb sfiKsni>

-sN-

msidi mnZl^hoMd cSibd sijiNn> nTt rg msi soIb soIdb Hidn hIbdi
soI rbs ber I te hIdn HbK Ad t^hbs Sn> msigi -jN ~ -cN hIb
AeIomorf siZ I> kngMbn msib 'siNs' hI>

-H^hK-

msin ShLlibdi mpLl^hoMd H^hKIKp nTt rg mfM Addgi I^hH^hKSib ShLli>
hNn IrMb mfMddgi Hd^hKps msin ShLli> msigi -t^hK ~ -d^hK hIb
AeIomorf Ani Ams I>

-ST-

msidi mHKl^hoMd ciZSTpd sijiNn> msigi -'kT ~ -tT' hIb AeIomorf
Ani Amg I>

-SI-

msidi kIb ShNbni> msigi -'kI ~ -gI' hIb AeIomorf Ani I> msidi
rT A^hIn I^hbs yI>

-HT-

msidi HTp hIbdi ciZHTpnciZb nTt rg HTp hIbdi heKtTps Sn>
msis rT A^hIn I^hb yI> msigi 'tT ~ -dT' hIb AeIomorf I>

-miN-

msidi pNn, I^hlInn t^hlb Sn>

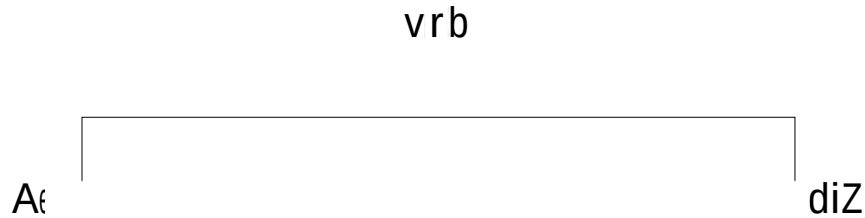
-mN-

msidi mNb hIbdi heNjNn pMb Sn> krM cUbs msin tKI>

-H-

msidi mSd INHb, tHb Sn> msigi '-d' hIb Aelomor f Am I>

mHKt piribsiZ Asi vrbt tPp sfiKssiZni> vrbsiZ Asi mSolgi mAoZdgi
yeZdn AmK mSL Ani HoKn SI dOKI> mddi :-



AefiKsesN :- rTt sfiKs tPtn seMb vrbsiZb AefiKsesNdgi AoIb
vrb hIn Sn> SdM :-

c + I	=	cI>
c + rK + li	=	crKli>
c + Si	=	cSi> AsinciZb>

kMpUNdiZ :- vrbsiZ Add nTtrg At wh nTtrg rTt tPsiIlg
AoIb vrbsiZb kMpUNdiZ ttrg seMb hIn Sn> SdM :-

pi + HK + le	=	piHKle,
pi + niZ + gi	=	piniZzi,
pi + HK + c + niZ + zi	=	piHKcniZzi, AsinciZb>

modifyr :- (AedjeKtiP AmsZ Advrb)

modifyr hIbsi mt loNddi nUN nTtrg vrbki mgN foZdOKlib nTtrg
mAoZ tKlib Adbni> SdM :-

- 1> mhK **kNn** cTp zMme>
- 2> mhK **yZn** ceNb mini>
- 3> mhK **kNn** cTli>
- 4> mhK **yZn** ceLli>

mHKki whpreZsiZd yUrib 'kNn' AmsZ 'yZn' hIbsin AhNb AmsZ Anisb
 whpreZd 'cTp' Amdi 'ceNb' hIb nUNsiZgi mgN foZdoKI> AhMsb AmsZ mrisb
 whpreZd mSoln 'cTli' Amdi 'ceLli' hIb vrbsiZgi mAoZ tKli> mrM Asidgi
 AedjeKtiP AmsZ Aedvrb hIn SIdoKpgi mhTt modifyrs hIn UTli> msi
 mSoln modifi t0rib nTtrg t0b zMb forMsiZ Addgi yeZdn mSL Ani HoKn
 SIdoKI> mddi :-

modifyr

restriKted

AN-restriKted

restriKted:- modifyrsiZ Adn nUN nTtn At kZIPki forMsiZb modifi
 t0b zMdrbdi mSolsiZ Adb restriKted modifyr hIn Sn> mSolsiZ Addi -
 nymreLsiZ, demoNst rit iP AmsZ INterogetiP prnUN, nmiT-Hgi mmiZ Amdi
 vrbeL nUN AsinciZbni> SdM :-

AzZ Ad,
 AzZ Ani,
 AzZ ky,
 niZHkb nmiT,
 kleN H,
 Afb AzZ, AsinciZb>

mHKki SdMsiZd yUrib **Ad, Ani, Afb, ky, niZHkb, kleN** Asi mSolg
 loInn lmiNnrib nUNsiZ Adgi mgN foZdoKpni> mSolsiZ Asin vrbsiZb modifi
 t0b zMde> mrM Asidgi mSolb restriKted modifyr hIn Sn>

AN-restriKted:- nUN AmsZ vrb AnimKp modifi t0b zMb modifyrsiZb
 ANrestriKted modifyr hIn Sn> SdM :-

h0jiK cTp,
 h0jiK cTl,
 fjn cTp,
 fjn cTl,

IUn hIb,
IUn hIy, AsinciZb>

mHKki SdMsiZ Asid **hjiK, fjn, IUn**, hIbsiZ Asi modifyr zKtni>
Adb mSoIn nUN AmsZ vrb AnimK modifi tIb zMbnin mSoIb ANrestriKted
modifyrni hIn Ii>

prnUN :- nUNgi mhT siNdn sijiNrib whsiZ Adb prnUN nTtrg
nUN-sbs tityThIn Sn> mSoI siZ Asin nUNgi mH tIb zMmi AmsZ mSoId nomineL
sfiKssiZ tPsiNb yI>

SdM :-

mni toMbSoId I, mni zsi cTkni>

mHKki whpreZd 'mni' hIbsi AnirK hNn sigiNnre> msi prnUN Amn
siNdokp yI> mddi :-

mni toMbSoId I, **mhK** zsi cTkni>

AkoNbggi whpreZd hNjiNb hIbdi Anisb 'mni' Ad 'mhK' hIb prnUN
Amn siNdoktn UTli> Adndi prnUN hIbsin nUNgi mhT siNdn nUNgi mH Ad
tIb zMle> Asigis mHKt msin nUNd tPp AefiKssiZ Ad I b zMmi> SdM :-

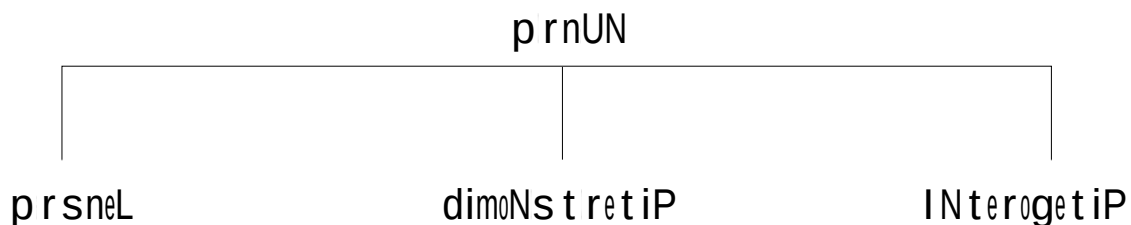
mhK + ki

mhK + n

mhK + p

mhK + ti AsinciZb>

prnUN mSL <- prnUNsiZ Asi mrAolb mSL AhM HoKn SI doKI> mSoI siZ
Addi <-



prsnEL :- msidi miAolbg mri Inrbtd sijiNn> whpreZ Amd hNn-hNn

sijiNnrib nUN nTtrg nUN frej Adn mi A0lrbdi md prsneL prnUNn mhT
 siNgni> mt loNds prsN AhMmK siZglr AmsZ plreL AnimKt l> prsN
 AhM Addi frst prsN, sekeNd prsN, AmsZ Hrd prsN Asini>

prsN	siZglr	plreL
frst prsN	A / AhK	ASol
sekeNd prsN	n / nhK	nSol
Hrd prsN	m / mhK	mSol

prsneL prnUNgi mrMddi hNns mHKt pNSre> Adb mSoln nUNgi mhT
 siNbgI SdM mSd piri> mddi <-

toMbn hI, 'cK crg A IKkni'>

msi riport iZ spicni> hISibsi toMbnni mdgi pU tMbni> Adn hISib
 'toMb' hIb frst prsN Adgi mhT siNdn 'A' hIbsin sijiNnbni>

cUbn hI, 'n zrZ IKte'>

msiddi hIrib 'mi' Ad nTtb 'Atb A0lSib mi' Adgi mhT siNdn hIri Adn
 'mi' Adgi mhTt 'n' hIbsin mhT siNdn sijiNnri>

mnin hIrmMi, 'mhK IKp zMmoI'>

msid 'mni' hIbsi 'mhK' hIb Asin mhT siNdn sijiNnri>

msid sijiNnrib 'A', 'n' AmsZ 'mhK' hIb whsiZ Asi prsneL prnUN
 zKtni> mSolgi sekeNdri forMsiZ hIbdi 'A-~ I-' 'n-' AmsZ 'm-' Asidi nUNsiZg
 t pndn lbyl, mddi <-

lyM nyM myM

lSL nSL mSL AsinciZb>

dimONstretiP < msidi bUNd forM zKtni> mt loNgi -si, -soM, -d AmsZ
 -doM hIribsiZsi dimONstretiP ShNb zKtni> mSols prsneL prnUNsiZgMn
 nUNd tPsiNb yI> SeNnrib hIbb prsneL prnUNn rTKi mmZd tPpi Adg
 dimONstretiP prnUNsiZn rTKi tZd tPpi> Adg '-soM' Amdi '-doM' Anisidi
 '-Sol' hIb Amgi mtZd lrb Adg mSolgi mtZd -d hIbsi tPIbtd nUNd tPp

yl Adg AyMb mtMd '-sOM' di- 'rOM-' AoLIi>

SdM <-

tOMbsi tOMbd

cbsi cbd

tOMbSoI sOMd tOMbSoI dOMd

mniSoI rOMd mniSoI dOMd

mHKki SdMsiZdgi Sb zMle mddi dimONst ret iP prnUNsiZ Asidi nUNd
tPsiNb yl>

dimONstret iP prnUNsiZ Asi frST prsN pronomineL prifiKs A-
AmsZ Hrd prsN pronomineL prifiKs m- Ani Asig tPsiNnrg wh AoIn
lePp zMmi Adb '-sOM' AmsZ '-dOM' Aniddi AroIbd '-d' Am tPtrbdi yde> msin
frST prsneL prifiKsk lb mtMd **proKsimeL** hIbdi 'AnKp' Adg Hrd prsneL
prifiKsk lb mtMd **disteL** hIbdi 'ArPp' ShLIi> SdM <-

proKsimeL (AnKp) <

Asi, Ad, AsOMd, AdOMd, Asini>

disteL (ArPp) <

msi, md, msoMd, mdoMd, Asini>

InterogetiP <- INterogetiP prnUNsiZ Asis bUND forMni> msi mSd
UTLIi> SdM <-

kn k + n - hlc + prsN (krMb + mi)

kri k + ri - hlc + HiZ (krMb + poT)

kdl k + dl - hlc + ples (krMb + mfM)

krM k + rM - hlc + meNnr we/mod (krMb + mAoZ)

ky k + y - hlc + kwNtiti (hU mc)

kyM k + yM - hlc + kwNtiti (hU meni)

knd k + n + d - hlc + prsN + AeT (kngid) (AeThj ples)

kdoMd k + doM + d - hlc direKsN + AeT (t hlc direKsN)

kdz k + d + z - hlc + AeKsN + tIM (hweN)

mHKki SdMsiZd mt loNd ArH UTpd SdoZHib Sr Ibdgi I lis AoIn pire>

Adb msin tKniZlibdi **k** hIb Asin INterogetiP prnUN ShNbni Adg mtZd
IKlibsiZ Asin sfiKs zKtni>

mHKt pirib prnUNsiZ Asin nUNgi AefiKssiZ Iib zMmi> loInn mSoIn
nUNgi pojisNd Ib zMmi>

kNjsN <- mt loNgi whpreZsiZ Asi **kNneKtiP** nTt rg kNjsNgi mteZn
pNsiNb, sMjiNnb yI> mt loNgi kNjsN Am hIbsi morfiM Am, nTt rg wh Am
nTt rg wh kZIP Am AoIbs yI> mt loNgi whpreZsiZb sMjiNb zMbsiZ Ad
mSd piri> mddi <-

- (1) - AmsZ
- (2) - -g
- (3) - -g -g
- (4) - -b
- (5) - -g loInn
- (6) - Addgi
- (7) - Adgi mtZd
- (8) - -s
- (9) - -s -s
- (10) - -ne -ne
- (11) - Adn
- (12) - mrM Adn
- (13) - mrMdi
- (18) - Adb
- (15) - tIlgMbsZ
- (16) - AdM AoInmK
- (17) - AdmKp
- (18) - Adg
- (19) - nTt rg
- (20) - mK
- (21) - gM Asini> msigi mHKt kom poj hIb kNjsN Ams Iri>
mHKt pirib kNjsNsiZ Asi mSd SdM pidn UTli <

- (1) toMb **AmsZ** A sNnri>
- (2) toMbn z **AmsZ** An s cI>

- (3) tōMbn z **AmsZ** An s **AmsZ** cUbn hwl cI>
- (4) tōMb, cUb, mni, ylm **AmsZ** A sNnri>
- (5) A lbohL**g** sNnri>
- (6) lMfL trel nMbL trel**g** tiNnre>
- (7) lMfL trel**g** nMbL trel**g** tiNnre>
- (8) **Ag** mnig tōMb**g** cUb**g** Srg**g** cTli>
- (9) ASolgi mniZd lb, yM Adgi mnKt h**lb**, hn l pMbidgi mSoZd lb, nipd cTSre>
- (10) A tōMb**g** lōl**nn** sNnri>
- (11) A tōMb**ig** mnig lōl**nn** sNnri>
- (12) mSol d cTl l **Addgi** A lKpni>
- (13) tōMb cTSre **Addgi** A lKle>
- (14) tōMbi cTSre **Adgi** mtZd A lKle>
- (15) tōMbs **As** cTkni>
- (16) cUbs cTkni>
- (17) tōMbne **Ane** mnine cTli>
- (18) mSol cTte **Adn** As cTtre>
- (19) mSol yMn tLli mrM **Adn** (mSol) lIr>
- (20) A lKlrol mrM**di** A nre>
- (21) tōMbdi cSre **Adb** Adi cdri>
- (22) mhKn tNnSi **t l gMbsZ** cUbb fbdi zMSide>
- (23) Andi hInbni **AdM** Aōl**nmK** kNngni Hjde>
- (24) tōMbn tōribni **AdmKp** ns Sr yUbiy>
- (25) n cTlSo **Adg** hlge>
- (26) n tlgēr **nTt rg** mzoNd hlyr?
- (27) tōMb cUbm**K** cUl>
- (28) mni cUb**gM** cTli>

kNjsNsiZ Asi pNn lmiNnrbs yI> mddi <-

- (29) A **AmsZ** cUb tōMb**g** cTli>
- (30) A **AmsZ** cUb tōMb**g** lōl**nn** ct li>

kNjsNsiZ Asin whpreZ kymrM sMjiNnb yI hIbdi msiZ Hib zMdbmS

whpreZsiZ sMjiNnb yI>

kNjsNsiZ Asi mSoIn sMjiNnrrib whpreZsiZ Adgi mAoZdgi yeZlg
mSL mz HoKn SI doKI> mddi <-

koAordinetiZ kNjsN <- grmtikeLli cP mNnb seNteNssiZ sMjiNnrrib
kNjsN Adb koAordinetiZ kNjsN kI> mSoIsiZ Addi <- AmsZ, Adb, tIlgMbsZ,
AdM AoInmK, nTtrg, Asini>

SdM <-

(31) cUb **AmsZ** toMb cTli>

(32) toMb cK cI **Adb** mhKti cde>

(33) yImn hISi **Adb** An ySide>

(34) Ibo toNn kISi **tIlgMbsZ** toMLdi IKSid>

(35) toMc cTlire **AdM AoInmK** mhK kNnbdi fSide>

(36) mni **nTtrg** Iboc cTkni>

(37) mnin cTkdr **nTtrg** nn cTkdr?

mHKki SdM (31) sbd yUrib 'cUb AmsZ toMb cTli' hIbsid 'cUb' hIb
Amg 'toMb cTli' hIb Amg Ani Asi 'AmsZ' hIb kNjsN Amn smjiNnri> Adg
msi yeZbdi Amn wh AoIn Adg Amn whpreZ AoIn UI Adb mSoI Ani Asi
grmtikeLli cP mNnb seNteNssiZni> msigi mnZd yUribdi 'cUb cTli' hIb
Amg 'toMb cTli' hIb Amgni> Adg 'cTli' hIb vrb Asi hNjN-hNjNn sijiNnbgi
mhTt Am IHoKSibni> krigMb 'cUb ceLli' hIb Amg sMjiNnb trbdi toZN-
toZNb vrb AoIrbnin vrb AnimK coZHorKtn myeK seZn mSgi AsMn Utp
tbni> mddi - 'cUb ceLli AmsZ toMb cTli'> Adn mSoIsiZ Asi koAordinetiZ
kNjsN hInribni>

koriletiP kNjsN <- koAordinetiZ kNjsNn tIbgMn koriletiP
kNjsNsiZs grmtikeLli mNnb whpreZsiZ sMjiNn> AdMndi AoIrg mSoIgi
mrKt SeNnrribdi koriletiP kNjsNsiZ Asidi jr jr AoIn I> mSoIsiZ Addi <-
-s -s, -g g, -s -g, -ne -ne, Asini>

(38) **As** toMbs sNnri>

(39) **Ag** toMb g cTli>

(40) toMbs mnig cTli>

(41) mne cUbne cK cI>

kMpretiP kNjsN <- msis koriletiP kNjsNg yMn mNn> Adg SeNnrrib

hIbb msiddi cZdMnbgI mAoZ Sr czi> mSoI siZ Addi <- -mK, -gM, Asini> SdM <-

(42) mni nmK cUl>

(43) cUb IbobigM cTli>

kNsikyYeNsiyeL kNjsN <- msiddi Ani nTt rg Anidgi heNb
whpreZsiZ smjiNn, Adb whpreZsiZ Adgi mnZdgi Amdi sMjiNnrib
whpreZsiZ Adgi mnZdgi Amgi rijLT (fL) dgi H0Kpni> mSoI siZ Addi <-
Adgi mtZd, Adn, mrM Adn, mrMdi, Adg, AdmKp, Addgi, AsinciZb> SdM <-

(44) toMb cTSre **Adgi mtZd** A IKle>

(45) mn cSi **Adn** A crol>

(46) IbotoN pzi **mrM Adn** mi STn>

(47) cUb IKIrol **mrMdi** mhK nre>

(48) n cTlo **Adg** crr0>

(49) An seMbni **AdmKp** Hjde>

(50) An tKpni **Addgi** Sze>

sbordinetiZ kNjsN <- grmtikeLli mNndb whpreZsiZ sMjiNnb
kNjsNb sbordinetiZ kNjsN hIn Sn> mSoI siZ Addi mHKt pNSrib kNjsNsiZ
Asi nTtb At leMhIribsiZ Adni> SdM <-

(51) toMb cUbg cTli>

(52) A mg **loInn** cTli> AsinciZb>

sbssteNtiPs <-sbssteNtiPs hIbsiwh kZIP Amni> mSoI siZ Asidi nUN
AoIn lbs zMmi Adg modifyr AoIn lbs zMmi> mSoI siZ Asin nUN Amg lmiNnb
mtMd nUN Adgi mgN foZd0KI> mrM Asidgi mSoI siZ Asib sbssteNtiPs hIn
kIribni> SdM <-

Acb mi

AzZb I

fjb np

sbssteNtiPssiZ Asidi nUNgi mmZ AmsZ mtZd Ib zMmi> mSoIn mtZd
Ib mtMd nUN Addgi mSoIb SIId0Ktn nnb yde> Adn frejni hIn lIbdi yI>
SdM <-

msid I **AzZb** Am sTle>

Asid **AzZb** l Am sTle>

AzZ **fjb** Am ceLli>

fjb AzZ Am ceLli>

mHKt pirib SdMsiZ Asid 'AzZb' Amdi 'fjb' hI ribsiZ Asi modifyrgi
mHl tIre> Adb mSgi SdMsiZd mSol siZ Asi nUN A0In l> SdM <-

AzZbd heKUn>

fjbddi kdId cTSre?

Acbd Sle>

mhK **cb** hre> AsinciZb>

mHKki whpreZd yUrib AzZbd, fjbddi, Acbd, cb, hIb whsiZ Asi
mtZ Asid nUN A0In sijiNnre> mrM Asidgi mSol siZ Asib sbsteNtiPs hIn
k/I>

nymreL <- msiZ tKp whb nymreL hIn Sn> nymreLsiZ Asidi nUNgi
modifyrni> mSol Asi krdineL AmsZ AordineL hIdn mSL Ani HoKn SIdoKI>
krdineLg AordineLgsi toZN-toZNb fivMd yUI> krdineLn nUNgi mtZddmK
yUb zMmi Adg AordineLdi nUNgi mmZdmK yUI> SdM <-

mi Am

AzZ AhM

AhNb mi

AhMsb AzZ AsinciZb>

Am, AhM, AsinciZb msiZsiZ Asi krdineL nMbr nTtrg nymreL hIn
Sn> AhNb nTtn At AordineL nymreLsiZdi krdineL forMd - 'sb' hIbsi tPtn
seMmi> SdM <-

krdineL	AordineL
Ani	Anisb
mz	mzsb
nipN	nipNsb
kN	kNsb AsinciZb>

krdineL :- hIjIKti mt loNgi krdineL Asi biNd nTtrg briNd hIbsifUb
Hinre> tr, kN, kNHRnciZb tr trgi srK Asidgi cUSTIKp nTtrg
heNgTIKp msiZ Hibd Am, Ani, AhM, heNb fUbdI 'A' hIb srK Ad lIHoKSrg
leMhIb srK 'm, ni, hM' hIbsid 'HoI' nTtrg 'doI' tPtn seMmi>
SdM <-

tr Am HoI	=	tr mHoI
tr Ani HoI	=	tr niHoI
kN AhM doI	=	kNhMdoI
nif Am HoI	=	nif mHoI AsinciZb>

Adg AhMdgi heNSibsiZ heZgTIKpddi mri, mz, trK, AsinciZb Ad
mAoZ kIHndn tpsiLli Adg 'HoI' nTtrg 'doI' hIbsi tPte> SdM <-

tr mri
kNmz
yZSmpN
hMft reT AsinciZb>

AordineL <- mHKt pNSre mddi AordineLgi 'AhNb' hIb Asi nTtn At di
krdineLd '-sb' hIbsi tPtn seMmi> SdM <-

AhNb
Anisb
cmsb
IisiZsb AsinciZb>

nnb

- 1> mt loNgi wrd klssiZ Ad kri krino? mSoIgi mrMd sMIPn IrKU>
- 2> mt loNgi nUN AefiKssiZgi mrMd IrKU>
- 3> mt loNgi nUNb dipeNdeNT Amdi nN-dipeNdeNT hIn SI doKpgi mrM pidn
nnrKU>

- 4> mt loNgi kMpUNd nUNgi mrMd l rKU>
- 5> mt loNd vrb krMn seMbge?
- 6> mt loNgi AspeK nTt rg modeliti ShNb AefiKssiZ Ad kri krino?
- 7> wh Amgi mnZd psT, prjeNT AmsZ fycr teNs mrkr AhMmK pNn lb
ybr? sgIn nnrKU?
- 8> mt loNgi modifyrgi mrMd sgIn l rKU>
- 9> mt loNgi prnUN mSL ky sl? kri krino? nnl>
- 10> mt loNgi INterogetiP prnUNsiZgi toZN-toZNb srKsiZ Ad kri krino?
- 11> mt loNgi kNjsNgi mrMd sgIn l rKU>
- 12> sbsteNtiPs hIrg krib Sn? sgIn nnrKU>
- 13> mt loNgi nymreLgi mrMd l rKU> mt krMn mt loNgi AordineL seMbge?

11) IdiAometiK frej

mt l0Nd whsiZn pNsiNnrg A0Ib kZIP mSL Am l> mS0IsiZ Asi yMn
toIn sijiNn> mS0IsiZ Asid yUrib whsiZ Ad msgi ArH lbs yUI, Itbs
yUI> krigMb mrMd mS0Igi msgi ArH Ad nTtb At0Pp l t0P-t0Pp ArH Am
ShLLi> mS0IsiZ Asi mrA0Ib mSL AhM H0Kn Sld0Kp yI> mddi <-

- (k) ArH ceNb whg ArH ltb whgn pLIg A0Ib;
- (s) ArH ceNb whsiZn A0Ib Adg msgi ArH mZdn lb;
- (l) ArH ceNb whsiZn pLIg l t0P-t0Pp ArH Am ShNb Asini>

(k) ArH ceNb whg ArH ltb whg pLIg A0Ib <-

msiddi wh kZIP Add yUdb wh Am s0Idn yUgni> SdM <-

smZ-He l0Z,
yenS-IKS
ciZ-mN,
nrK-m0Zs0Z
UceK-wy
kr0l-lkl, AsinciZb>

mHKt pirib SdMsiZ Asid smZ, ciZ, yenS, UceK, AsinciZb Asidi msgi
ArH lre Adb mN, m0Zs0Z, wynciZbsiZdi ArH lte>

(s) ArH ceNb whsiZn A0Ib Adg msgi ArH h0Zdb <-

msiddi whsiZ Ad ArH ceNb A0Igni l0Inn mS0Igi ApNbgi ArH Ad
f0Zd0Kp zMgni> SdM <-

s-z,
k-yeN,
hrZ-lrZ (h-l),
sn-lp
yMnK-sg, AsinciZb>

mHKki SdMsiZd yUrib pMnmK ArH ceNnb wh zKtni> mS0lgi ArH
ApNb Ads f0Zd0Kli>

(I) ArH ceNb whsiZn pLIg It0P-t0Pp ArH Am ShNb <-

msiddi ArH Ib whsiZn pNsLIg It0P-t0Pp ArH Am H0KhNbni> SdM <-

UrM-wrM,
npi-siZn,
UTn-wIn-SMb,
miT-nK0Z,
Ice-IcL,
mimZ-fMb,
kHeL-H0Kp,
cf-UyN mirZ Hb, AsinciZb>

mHKt pirib SdMsiZ Asidgi Sb zMle mddi whsiZ Adgi msgi ArH Ad
mZSrg In0-n0b ArH Am p0KIKle> 'npi-siZn' hIrg 'liN'b Snre, 'mimZ-fMb'
hIrgn 'c0Pp nbb Snre> Adndi whsiZ Adgi ArH Ad mZSre>

n nb

- 1> mt loNgi IdiAometiK frejgi mrMd IrKU>
- 2> toZN-toZNb mt loNgi IdiAometiK frejsiZ Ad kri krino?
- 3> mt loNgi IdiAometiK frej mSL ky sI? SdM pidn tKU>

12) wrd Aordr

wrd hIbdi wh hIbni> wh Am hIbsig mor fiMg SeNn> mor fiM hIbsidi
sPngi ArH ceNb srK Adtb Snbni> mor fiMdi wh A0Ibs yUI A0Idbs yUI>
mor fiM Am nTt rg Amdgi heNbn wh A0I> sMn hI rbd wh hIbsidi whpreZsiZd
mt0Mt IePcb zMb srK Adbni> 'A cK cI' hIb whpreZ Asid yUrib A, cK,
AmsZ cI, hIrib srK AhM Asi wh zKtni Adb 'cI' hIbsiddi mor fiM Ani
(cI + I) yUri>

wrd hIbsi krino hIbd mHKt sMIPn pNSre> 'wh' hIbsi msK tKp
yMn I IbwfM nTte> msid tozN-tozNb SeNnb moT kymrM I> Adb mddi ASoIn
nndre> **wrd Aordr** hIrg ASoIn whpreZsiZd wh kZIPsiZ Adn nTt rg
whsiZn Ib zMb fivM Adbni> Adb frej Amdi klojsiZd IbgI mA0Z Ads nnb
drkr A0I> IhN hNbd whpreZsiZd whsiZn yUrbgi mH-mnU Ad yeZsi>
whpreZsiZd Irib mt loNgi wrd Aordr di AyMbn nUN + nUN + vrbni> msi
AcMb mA0Zd sbjeKT + AobjeKT + vrbni hIn I Ibs yI> Adb mt loNddi AobjeKtk
vrbk tIndn I tbyde hIb HoIdoKp niyM I te> sbjeKtk AobjeKtk A0NH0Kndn
Ib mtMds whpreZdgi ArHd Ah0Zb AmTt I te> mrkr siZ yUb yUdb hIbds
kri HoIdoKte> SdM <-

toMbn cUbb fI>

cUbb toMbn fI>

cUb toMbn fI>

toMbn cUb fI>

A cK cI> AsinciZb>

msidgi ASoIn Sb zMle mddi sbjeKtk AobjeKtk yUfM A0NH0Knbn
whpreZsiZd Ah0Zb pib zMde>

mt loNd frejsiZd wrd Aordr Asi mSgi AsMn I>

vrb frejsiZddi modifyrsiZ Asi mtM pMnmKt vrbki mmZd I> SdM <-

kNn ceLli

Hn cri

yZn Hri

nUN frejsiZddi modifyrsiZ Asi mmZd Ibs yUI mtZd Ibs yUI> SdM <-

kNn cTp

Hn cb
AzZ Am
AzZ Ani
AzZ Ad
AzZb I
I AzZb

mHKki SdMsiZd yUrib kNn, Hn, hIbsidi mtM pMnmKt nUNgi mmZd I>
Am, Ani, AsinciZb nymreLsiZ Asin nUNgi mtZd I Adg 'AzZb' hIbsigMb
sbsteNtiPssiZ Asidi mmZnTt rg mtZ AnimKt I>

n nb

- 1> mt l0Ngi wrd A0rdrgi mrMd sgIn I rKU>
- 2> mt l0Ngi modifyrsiZn vrb Amdi nUN frejd I bgi mA0Z tKU>

13) frej AmsZ kloj

wh Am nTt rg Amdgi heNbn prTs Aof spic Amgi HbKti tlb Adb mdd sbjeKT nTt rg prdikeT hIn SIdoKtn Utpdi ydb wh nTt rg whgi kZIP Adb **frej** hIn Sn> SdM <- I Am, np Am, AzZd, mi Amb, UceK Asi, fjn sTli, hIbnciZbsiZ Asi mt loNgi frej zKtni> Adg 'I AzZb Am fjn sTle' hIb whpreZ Asiddi 'I AzZb' hIb frej Amg 'fjn sTle' hIb frej Amg frej Ani yUri> mt AsMn 'mhKn pirKp I IriK Ad f' hIb whpreZ Asiddi kloj Amg frej Anig yUre> mSoI siZ Addi <- 'mhKn pirKp' hIb kloj¹⁴ Asimg 'I IriK Ad' Amdi 'f' hIb frej Anisigni> msidgi ASoIn Sb zMle mddi whpreZ Amd frej Amdgi heNn lbyl>

mt loNd Irib frejsiZ Asi mrAolb mSL mz H0Kn SIdoKp yl> mddi <-

- (k) nUN frej,
- (s) vrb frej,
- (l) modifiketiP frej,
- (m) kNjsN frej AmsZ
- (p) INtrjeKsN frej Asini>

(k) nUN frej <- nUN nTt rg prnUN Amn mpZ Aolb mdd At wh hPciNb nTt rg AefiKssiZ tPsiLlbs nUNgi HbK tlb nUNgi IfMd lb zMdn nUNgi AefiKssiZ tPsiNb yb wh nTt rg wh kZIP Adb nUN frej hIn Sn> SdM <-

I IriK Ad,
kIMni,
Aoj hed mst rn,
Amb nip
knn0,
kn-kn,
nSoI-ASoInb, AsinciZb Asidi>

(s) vrb frej :- vrb Amn mpZ Aolb mdd At wh hPciNb nTt rg AefiKssiZ tPsiLlgs vrbki HbK tlb Amdi vrbki mfMd lb zMlb loInn vrbki AefiKssiZ tPsiNb yb wh nTt rg wh kZIP Adb vrb frej hIn

Sn> SdM <-

yMn fj,
pMmi-pMde
sdoKU,
fjn yeKU,
kNn ceLli, AsinciZb Asini>

(I) modifiketiP frej <- AedjeKtiv nTtrg Aedvrbki HbK tlb frejb
modifiketiP frej hIn Sn> SdM <-

AedjeKtivki HbK tlb frej <-

tr-trb,
tr-trb fjb,
zrZ IKIMb,
ms frb,
Afb, AsinciZb Asini>

Aedvrbki HbK tlb frej <-

HbK kNn s>
yMn yZn ceLli>
tr-trn l>

mHKt pirib SdMsiZ Asid Arb myeKn lribsiZ Asi Aedvrb frej
zKtni>

AedjeKtiv nTtrg Aedvrbki HbK tlb frej <-
kNn cTp,
yZn ceNb,
tr-trn lb,
yMn yZn cTp, AsinciZb Asini>

(m) kNjsN frej <- kNjsNgi HbK tlb frejb kNjsN frej hIn Sn> SdM <-
AdM A0InmK,
mrM Adn,
Adb, AsinciZb Asini>

(p) INtrjeKsN frej <- AzKp, AnbnciZb, Shldn fUrKp foZd0Kp
frejb INtrjeKsN frej hIn Sn> SdM <-
Is!
Ihe!
mZzedn!
ImIpeMm! AsinciZb Asini>

kloj :- hIbsidi sbjeKT Amdi prdikeT hIn SIdoKtn UTp yb, whpreZ A0In
mt0Mt lePcb zMbs yb, zMdb yb, whpreZ nTtrg whpreZ mc Adbni> mt loNd
kloj hIbsi mSL Ani H0Kn SIdoKI> mddi <-

kloj

dipeNdeNT

INdipeNdeNT

dipeNdeNT kloj <- ms mt0Mt whpreZ A0In lePp zMdb klojb dipeNdeNT
kloj hIn Sn> SdM <-

mhK Sde hIbd **AcMbni**>
cUb cK cSre **Adg cTSre**>
mhKn pirKp IIriK Ad f>

mHKt pirib SdMsiZ Asid Arb myeKn IribsiZ Asi dipeNdeNT klojni>
mHKt 'mhKn pirKp' hIbsi modifikeTiP frejgi HbK t0rbs klojni hIn hISre>
mrMdi 'IIriK Ad krMbno' nTtrg krMb IIriKno' hIn IIriK Ad msK tKIKp
mtMd 'mhKn pirKp IIriKtni' hIn sijiNnb mtMddi msi 'IIriK' ki msK
tKnnb frej A0In UI> Adb tseZbdi md nTte> whpreZ Asigi mnZd whpreZ
Ani yUri mddi 'mhKn pirKI' nTtrg 'IIriK Ad mhKn pirKI' hIb whpreZ
Amg 'IIriK Ad f' hIb whpreZ Amgni> mt0 ASMn mt loNd kloj kymrM yUb
whpreZ I> Adb AdgMb whpreZsiZ Adddi mmZ Hb kloj Adn mHgi kloj

sbjeKtp modifI t0I> SdM <-

ASoIgi mniZd hIb, hn0 pMbi Adgi mSoZd Ib, AcIb pSridgi mpNd Ib,
SZp0Ks Add Ib, nip Ad cTSre>

mHKki whpreZ Asidgi -

(k) **hn0-pMbi Ad** ASoIgi mniZd hIb,

(s) **AcIb pSrid** hn0 pMbi Adgi mSoZd Ib,

(l) **SZp0Ks** Ad AcIb pSridgi mpNd Ib,

(m) **nip** Ad SZp0Ks Add Ib,

(p) **nip** Ad cTSre>

hIb whpreZ mz HoKn SI doKp yI> Adndi mHKki whpreZd (,) kom I rib
SdiZmK Asi wh preZ AmmMni> Adb 'nip Ad cTSre' hIb whpreZ Asi nTtn
At whpreZsiZdi mniZtMdb hIbdi dipeNdeNT kloj zKtni>

INdipeNdeNT kloj <- ms mtoMtn whpreZ AoIn lePcb zMb klojb
INdipeNdeNT kloj hIn Sn> INdipeNdeNT klojdi mh0sn AcMb whpreZsiZ
zKtn AoI> mHKki SdMsiZd yUrib **mhK Sde; cUb cK cre; I I riK Ad f;**
Amdi **nip Ad cTSre** hIb whpreZsiZ Asi INdipeNdeNT klojgi SdMni>

n nb

1> frej hIbsi krino? SdM pidn tKU>

2> nUN frej / vrb frej hIbsi krino? SdM pidn mt loNgi nUN frej / vrb
frejgi msK tKU>

3> mt loNgi frej mSLsiZ Ad kri krino? mSoIgi mrMd IrKU>

4> frejg klojg kri SeNn? SdM pidn tKU>

5> mt loNd kloj mSL ky sbge? mSLsiZ Ad SdMg loINn tKU>

6> frej Amdi kloj SNdoKIg mSoIgi mSLsiZ tKU>

toMbSoIgi mniZd Ib, yMn toZb, I teM mNnb IMpKtgi, ciZS AoI rPn hIb,
hn0 pMbi Ad, zrZgi noZ-nZsiTtd teKle>

14) whpreZ

t redisneL grmriyNsiZgi mTt wh Srn mpZfb ArH Am foZdoKIbdi whsiZ
Adgi ApNbdbwhpreZ hIn kI> msidi cTnb ydb difinisNni mrMdi mpZfb ArH
hIbsi krino hIbd seZn tKp hIbsidi AoIHokte> Adn whpreZ Am hIbsidi
sMn hIrbd niyM Srgi mSd siNteKtiK AI teM hIbdi whsiZ, frejsiZ Amdi
kIoj siZn pNsiNdn seMb mdb sbjeKT Amdi prdikeT hIn SI doKp yb AdgMb
srK Adbni> SdM <-

Ani>

mhK toMbni>

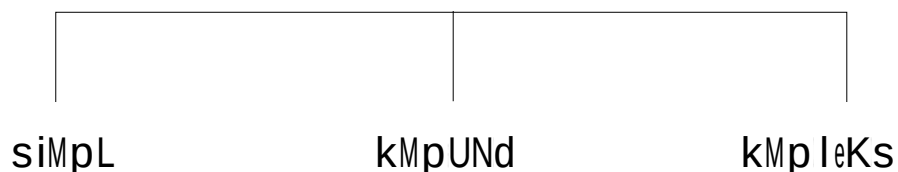
A cTle>

msK fjb nip Ad ng kri HoKn?

An z cI, toMbn s cI, Adg mnin yerM cI>

mHKki SdMsiZ Asidgi Sb zMle mddi whpreZ Am hIbsid toZN-toZNB
whpreZ Amdgi heNn Ibs yI> mHKki SdMd yUrib Ani; mhK toMbni; hIbsiZ
Asis whpreZ AmmMni Adb mSoI siZ Asidi INdipeNdeNT kIoj AmSKtn AoIb
whpreZni> Adg An z cI, toMbn s cI Adg mnin yerM cI; hIb whpreZ
Asid di INdipeNdeNT kIoj AhM hIbdi whpreZ AhM yUri> msidgi hIbdi
mSoI gi mnZd yUrib kIoj gi strKcrdgi yeZlg whpreZb mSL AhM HoKn
SI doKp yI> mddi <-

whpreZ



siMPL <- INdipeNdeNT kIoj AmSKtn AoIb whpreZb siMPL hIbdi
AcMb whpreZ hIn Sn> SdM <-

A cK cI>

toMbn cUbb fI>

ASoI IroIri>

mhK zrZ IKI>

kMpUNd :- INdipeNdeNT kloj Ani nTt rg Anidgi heNbb kNjsN nTt rg koAordinet rn sMjiNnrg mdd whpreZ Am AoIrbdi mdb kMpUNd hIbdi tiNsiNnrg AoIb whpreZ hIn Sn> SdM <-

An cK cri Adg toMb c HKIi>

A kHeNd cTkni, mnin yM shIgni>

mhK IKkni Addt ASoI cTkni>

kMpleKs <- INdipeNdeNT klojg nN-INdipeNdeNT / dipeNdeNT klojg pLIg AoIb whpreZb kMpleKs hIbdi yNsiNnrg seMb whpreZ hIn Sn> SdM <-

mhK cK crrOI hIre>

cUbi msK fj Ad AoI rbs mbKti fTte>

mhK IKp zMmoI hI rbs IKIe>

mHKt pirib whpreZ mSLsiZ Asidi ASoIn strKcr hIbdi sjiNbd yUrib kloj Amdi frejsiZ Addgi yeZdn SI doKpni> Asid nTtn whpreZsiZ Asi AmKks mSoIn foZdoKlib nTt rg ShNIlib mAoZ Adgi mtZINn mSL SI doKp yI> msidgi whpreZsiZ Adn - I cM-cMn AcMb Am ShNbr? nTt rg wh Am hb ShNbr nTt rg hIjb, yH pib Amdi pUtKnciZb pibgi mAoZ ShNbr? nTt rg AoI sn hIbgi Anizb foZdoKpr? nTt rg IS-ShIdn krigMb pKniZgi IhL Am foZdoKpr? hIbd yeZlg whpreZsiZ Adgi msK mmiZ HoNdn mSL mz HoKn SI doKI> krigMb I cM-cMn AcMb AmSK ShLIbdi mdb steTmeNT nTt rg Aesrtiv hIn Sn> wh ShNb AoI rgn mdb INterogetiP nTt rg kwesN hIn Sn> hIjb yH pib Amdi pUtKnciZb pibdn IMpretiP Adg Afb AoI sn hIdn mgoL pibbn AoP tetiP Amdi IS-ShIdn pKniZgi IhL foZdoKpbn AeKsklemeteri hIn Sn> mSoI siZ Asi mSd SdM pidn UTIi>

(k) **steTmeNT** hIbdi **I cM-cMb** ShNb whpreZ <-

A I I Asi pMde>

mhK zrZ diLIidgi IKpni>

An HbK Ad tIgni>

An hIb ydrbnin A cTI rOI>

mhK zrZdgi tMIKtri>

ndi priS zMgni>

mHKt pirib whpreZsiZ Asin UTIlibdi wzZ Ad AcMbni> mSoI siZ Asi ASoIn AmK AefrmetiP nTt rg pojitiP hIbdi AAoIb, AcMb ShNb whpreZ

Amdi negetiP hIbdi A0Nn-tnb, yniZdb ShNb whpreZ hIdn Ani HoKn SI doKp yI> 'mhK zrZ diLIdgi IKpni>' Amdi 'ndi priS zMgni>' AsinciZb Asin **pojitiP** hIbdi **AA0Ib, AcMb** ShNb whpreZni> Adg 'A II Asi pMde>' Amdi 'mhK zrZdgi tMIKt ri>' AsinciZb, AsigMb mSLgi whpreZsiZ Asin **negetiP** hIbdi **A0Nn-tnb, yniZdb**, ShNb whpreZni>

(s) **INterogetiP** hIbdi **hb** ShNb whpreZ <-

n cK crbr?

mhK kd0z IKkni?

n kri t0ri?

mhK IKkdr? (mhK IKkdbr?)

mhK cTSibr?

knn0?

mHKt pirib whpreZsiZ Asin ShNlibsi krigMb pUSM Am pMdn hbni> sMn hI rbd mSoI siZ Asi Ahb ShNb whpreZni> INterogetiP Asi AmK ASoIn Ani HoKn SI doKp yI> mddi nomineL forMd sfiKs **-r ~ -I** tPtn seMb wh Amdi INterogetiP prnUNgi mteZn seMb wh hIbsini> mHKki SdMsiZd 'n cK crbr?' Amdi 'mhK cTSibr?' hIb wh ShNb whpreZsiZ Asi sfiKs tPtn seMbni Adg 'n kri t0ri?' 'knn0?' AsigMb wh ShNb whpreZsiZ Asidi **kri, kn**, hIbnciZb prnUNsiZ Asigi mteZn seMbni>

(I) **IMpretiP** hIbdi **hIjb, yH pib** AmsZ **pUtKnciZb pib** ShNb whpreZ <-

n zsi cTI>

HbK Asi t0biy>

II riK kNn pU>

n mSoId cTlc0>

n zsi IKU>

n pr hly>

mHKt pirib whpreZsiZ Asidi hIjb, yH pib, Amdi pUtKnciZb pib ShNb zKtni>

(m) **A0PtetiP** hIbdi **Afb A0Isn niZb, mgoL pibnciZb** Shnb whpreZ <-

n kIn pNsiyk0>

mhK mIpKp A0Isn>

n priS zMjro>

AsigMb mSLgi whpreZsiZ Asib A0PtetiP hIn Sn> (mt loNddi A0PtetiP ShNb whpreZsiZ Asi IMpretiPni hIn lbs ybgi mA0Zdi I> AdbmtZ Asidmd ndre>)

(p) **AeKskIemetri** hIbdi **IS Shdb pKniZgi IhL foZdoKp** whpreZ <-

Ihe! mSd tSredo>

Is! A0NH0Kpnid!

ImIpeMm! sirMgdb SiTt mzI>

AsigMb mSLgi whpreZsiZ Asib AeKskIemetri ShNb whpreZ hIn Sn>

mt loNgi whpreZsiZgi tozN-tozNb mSL mHKt nnSre> mS0IsiZ Asigi mrKt hoZdoK-hoZjiN tIbgi mrMd Srd AmK nnsi>

IcM cMb whpreZ hIbdi steTmeNT Amdgi mt0krMn tozN-tozNb whpreZ seMbge hIbdgi mtZd Srd yeZsi>

negetiP seMb <- negesN hIrg AS0In nTtb, A0Nn-tnb yniZdbnciZb foZdoKpb Sn> mt loNddi negetiP hIbsi sfiKski mteZn seMmi> Adn msidi morf0lojikeLni> vrb nTtrg rTsiZd negetiP sfiKs '-te ~ -de' Amdi '-l0l ~ -rol ~ -p0l ~ -z0l ~ -m0l' tPsiNb mtMd negetiPki ArH pi> SdM <-

c + de

cT + te

c + rK + te

hI + Si + de

t + rol

fT + l0l

hZ + z0l

kP + p0l

tM + m0l AsinciZb>

mHKt pirib SdMsiZ Asidgi Sb zMle mddi mHKt pNSrib sfiKssiZ Asi negetiP zKtni> '-te ~ -de' hIbsin cMngi AcMb mSLgi negetiP ShNbni,

Adg '-lɔl ~ -rɔl ~ -mɔl ~ -zɔl ~ -pɔl hɪbsin INteNtiP negetiP hɪbdi
AniZb Am yUb negetiP ShNbni>

mt lɔNd negetiP Asi vrbtdmK tPtn seMmi> Adn 'b ~ -p' hɪb rTt nTtrg
vrbt tPlg nUNn seMb sfiKs Asigi mtZd nTtrg nUNgi At lrib sfiKssiZ
Adgi mtZd negetiP ShNb sfiKssiZ Asi tPp yde> Adb negetiP sfiKs '-te ~
-de' gi mtZd '-p ~ -b' Asi tPsiNbdi yI> mtM Add '-te' n '-t' Adg '-de' n '-d'
A0NSi> SdM <-

cTte + b = cTtb

kKte + b = kKtb

hIde + b = hIdb

hde + b = hdb AsinciZb>

'-lɔl' hɪb sfiKs Asigi mtZd '-b ~ -p' Asi heKt tPsiNb yde> msi
tPSrb vrb forMgi mtZd '-b ~ -p' tPtn derivetiP A0lhNb mtMd '-d' Am
hNnn tPtb yde> msigi '-d' Asi 'de'dgi A0lrKp nTte> msidi niZjiZ-mZjiZnb,
t-tdb ShNbni> msin '-rɔl ~ -lɔl' nciZbg lmiNnb mtMd negesNgi srK Am
hNn lSibn niZjiZ-mZjiZnb Ad negesNgM fUbni hɪbdi negetiP A0lrboI
niZbni> msidgi Sb zMle mddi <-

'-te ~ -de' gi '-t ~ -d' hɪb Aelomor f l Adg '-lɔl' gin '-rɔl ~ -mɔl ~ -pɔl
~ -zɔl' hɪb Aelomor fsiZ l>

mtZ Asid nngdb Amn nTte hɪbsini> '-n' hɪb vrb forM Am mt lɔNd
l te> mt0 krMn '-te' hɪbsi tPtn negetiP A0lrKlibno hɪbsini> msidi Ani,
t0Mbni, cbni, hɪbsiZ Asigi A0Nn-tnb ShNbd 'nTte' hɪbsi yUrKp mtMd '-
ni' Asi mZSi> msi mZSib nTte> **A, t0Mb, cb** hɪbsid yUrib **-ni** hɪb kopyl
Asi flnIT vrbki HbK t0bni> Adn nUNd negetiP seMb yde hɪb niyM Adgi
mSd 'ni' hɪbsi nUNdgi l0HoKIKlg '-n' hɪb vUAL ceNjgi proses Am lSrg
msid '-te' tPsiNdn negetiP seMbgi wni> Adndi msid lrib proses Asi <-

Ani : A ni + te

A n + t + te

A n + T + te

A nTte Asini>

msidgi AS0ln Ub fle mddi mt lɔNd AyMb mtMd v0lsles S0NH0Kp
v0lslesn lNgni hɪb wfM Adgi mtZlNn 'ni'dgi '-n' A0Lib mtZd '-t' Am lNsrt
t0re> Adndi msids negetiP Asi vrbt tPtn seMmi>

hijik AmK whpreZ Sr lISTtn yeZsi> 'A cK cI' hIb whpreZ Asigi
 AoNn-tnbdi 'A cK cde' hIbsini> mt AsMn 'A zrZ cTli' hIbsigi AoNn-tnbdi
 'A zrZ cTte' hIbsini> msid AoNn-tnb ShLlibsi '-de' AmsZ '-te' hIb sfiKs
 Ani Asi tPsiNbdgini> Adndi mt loNd negetiP Asi sfiKski mteZn seMmi hIbsi
 tseZn Sb zMle>

InterogetiP seMb <- hb nTtrg wh Snbb InterogetiP nTtrg
 InterogesN hIn Sn> mt loNddi InterogetiP Asis sfiKski mteZn seMmi>
 AyMbn nUN nTtrg nomineL forM nTtrg modifyr nTtrg nymreLsiZd '-l' nTtrg
 '-r' tPtn InterogetiP seMb zKtni> SdM <-

tMb + r	=	tMbr?
IsiZ + l	=	IsiZl?
cb + r	=	cbr?
HK + p + r	=	HKpr?
cK + l	=	cKl?
kNn + r	=	kNnr?
Am + r	=	Amr?
fjb + r	=	fjbr?

mHKki SdMsiZd tMb, IsiZ, cK, hIbsiZsin nUNni> mSo lddi '-l' nTtrg
 '-r' Asi heKt tPsiNdn InterogetiP seMmi> Adb 'c' 'HK' hIbsiZsin rTni>
 mSo IsiZ Asid '-l', '-r' Asi tPp yde> Adn AhNbd '-b ~ -p' Asi tPsiNdn
 nomineL forM AoNHoKI> Adgi mtZd '-l ~ -r' hIb sfiKssiZ Asi tPsiNdn
 seMmi> modifyr Amdi nymreLsiZddi nUNd tbgMn sfiKssiZ Ad heKtmK
 tPsiLli>

mtZ Asid pNb ybdi cbr, tbr, cger, AsinciZb forM Srddi vrbt
 InterogetiP Asi tPsiNbgM Ure> Adb msi kPn nnrKp mtMddi crbr?,
 tbrbr? Amdi 'cge hIbr?', nTtrg 'cge niZbr?' hIbsiZ Asigi AteNb hIbdi
 sMjiNb mAoZni> tMbr? hIbsis 'tMb AoIbr?' nTtrg 'tMb AoIbirbr?' hIbg
 cP mNn> Adndi msidgi InterogesN hIbsi nUN nTtrg nomineL forMddmK
 tpsiLlg seMmi hIbsi Sb zMle>

mHKt pNSre mddi InterogesN Asi nomineL forMsiZ nymreLsiZ, Amdi
 modifyr siZd sfiKssiZ tPtn seMmi> Asids nTtn InterogetiP prnUNsiZgi
 mteZn msi ShNb zMmi> mSo IsiZ Asigi SdM mSd piri <-

cTSribd ApiKp mnir?

cK crbr?

cKI?

Anir? AhMI?

z sir?

hIjiKI?

msi I I riK Amr?

msir?

zsi niZHikbr?

knn?

kri kri I?

kdId cTSre?

mHKt pirib SdMsiZ Asidgi nUN frej, nUN, vrbeL nUNnciZb nomineL
forMsiZd INterogetiP sfiKs tPtn INterogetiP seMbgI SdM Ub fle> IoInn
modifysiz Amdi nymreLsiZd INterogetiP sfiKs tPtn seMb Amdi
INterogetiP prnUNsiZn wh ShNb Ub fle>

mt IoNgi INterogetiPsiZ Asi cUrKn mSL Ani HoKn SI doKp yI> mddi
<- 'mNni / nTte' nTtrg 'hoI / mI' Amdi 'k-' Asini> 'mNni / nTte' nTtrg 'hoI /
mI' hIbsidi I liski 'yes / no' hIbdgMbni> mNn hIbmKs yI> SdM <-

n cK crbr?

cUb zsi IKpr?

Adgisi toMbr?

msi fjbgi yMI?

cK hPSor?

ASoI cTIsir?

m cTSrbr?

mHKki SdMsiZ Asigi pUSMsiZ Asi pojitiP AoI rg mNni nTtrg hoI
Adg negetiP AoI rgn mI nTtrg nTte hIbsini> hoI Snbgi pUSMddi hlib
forM Adgi srK Sr I HoKSrg mdd -I, -re, -ni, -rinciZb tPsiNdn seMmi> Adg
mI ShNb pUSM pib mtMddi -te, -de, nTtrg -t, -d,gi mtZd -ri, -linciZb
tPsiLIg seMmi>

k-INterogetiP hIbsidi hoI / mI hIn SMbgi mhTt At0Pp wh AoIn

pUSM Am pibni> mSoIsiZ Asidi INterogetiP prnUN zKtni> SdM <-

n kri cri?

tMb kdId cTSi?

fjbi kng cTSi?

ISitN kdZ IKkni?

smti krMn cTkni?

mHKki SdmsiZ Asigi pUSM pib mtMd mNni / nTtenTtrg hOl / mI hIn
pUSM pib yde> msiddi md nTtb I toP-toPp wh Amn pUSM pib tI> mddi <-
'n kri cri' hIbsigi pUSMdi cb yb **pOT, cK, miHI, kbOK, z** AsinciZb
AoIgni> 'tMb kdId cTSi' hIbsigin **IMfL, HbL, kHeL**nciZb mfM Am AoIgni>
'fjbi kng cTSi' hIbsigin **cUb, mni, Aoj**, hIbnciZb mi Am AoIgni> 'ISitN
kdZ IKkni' hIbsidn **zsi, hyeZ, niZHkb nmiT**, AsinciZb AoIgni, Adg
'smti krMn cTkni' hIbsigin **gri, cUb, SoZ**, AsinciZb AoIgni>

IMpretiP seMb <- IMpretiP hIbdi hIjb, yH pib, HdbnciZb
ShNbni>> IMpretiP hIbsi mtIoNddi rT nTtrg vrb nTtrg vrb frejsiZd
'-U, -Io, -I, -n, -So, -y, -Ao' AsinciZb sfiKssiZ tPsiNdn seMmi> Adndi
INterogetiP seMbd sfiKski mteZn IMpretiPs seMmi> SdM <-

c + U = cU

I + U = IU (Iy)

cT + Io = cTIo

yeZ + I = yeZI

t + g + n = tgn (tIn)

IZ + g + n = IZgn (IZn)

I + So = ISo

I + So = ISo AsinciZb>

mtIoNd IMpretiPsiZ Asin **normeL** hIbsi IcM cMb, **IMmediyeT** hIbdi
AHb nTtrg SdKki, **HbK Ad AtOPp mfMd cTlg ttrco, kIjb** AsinciZb
ShNb zMmi> **prohibisN** hIbdi AHIZb hIbsis IMpretiPni hIn Iori> IcM
cMb Snbdi '-U' nTtrg '-Ao' ni, AHb nTtrg SdKki Snbd '-Io', AtOPp mfMd
HbK t b Snbd '-I' IKpinb kIjbd '-Io', tIn ISo hIbdi IoIsiNb ydri hIbd '-So',
hIjb Snbd '-y', Adg AHIZb pib Snbd '-n' hIbsiZsi tPpi> SdM <-

cTSi IKAo>

n cK cU>
 n l l r i K pU>
 n p o T t l M m>
 n cK c r o> (S d K t cU)
 n H n c T l o>
 n c K t c r>
 H b K t n t l r>
 n l d h e K l>
 n cK c r o> (l K l g c r r U)
 n m z o N d h l r o> (l K l g h l r o r U)
 cK c S o>
 l e P t n l S o>
 cK A d c b i y>
 n c g n>
 n t l g n> A s i n c i Z b>

m s i d g i S b z M l e m d d i m t l o N d I M p r e t i P h l b s i v r b e L s f i K s s i Z g i
 m t e Z n s e M m i>

A o P t e t i P s e M b :- m t l o N d A o P t e t i P A s i I M p r e t i P n i h l n l b s y l
 m r M d i I M p r e t i P S h N b s f i K s s i Z A d A o P t e t i P t y U l> S d M A o l n - ' n p r i S
 z M j r o>' n T t r g ' n k l n p N s i y k o>' A s i n c i Z b A o P t e t i P S h N b w h p r e Z s i Z
 A s i d y U r i b ' z M j r o' A m d i ' p N s i y k o' h l r i b A o P t e t i P f o Z d o K l i b w h s i Z A s i d
 '- r o' n T t r g '- A o' A m d i '- y' h l b I M p r e t i P S h N b s f i K s s i Z A s i y U r i> m s i d g i
 A S o l n S b z M l e m d d i m t l o N d A o P t e t i P A s i v r b f o r M d - s n, - y, - y k o, - r o, - j r o,
 A s i n c i Z b s i Z A s i t P s i l l g s e M m i>

A e K s k l e m e t r i s e M b <- m s i d d i l s!, l h e!, h l m!, l m l p e M m!, t T!,
A o-h o!, A o N H o K p n i d!, A z K p n i d!, t T!, A s i n c i Z b s i Z A s i w h p r e Z s i Z A d g i
 m m Z d t P s i N b g l o l n n A r o l b d s ' h l n h', ' h l y e', A m d i '- b o l y e', '- h l d l' h l b s i
 h P c i N d n s e M m i> ' h l n h' h l b l t o P - t o P p w h A s i h P c i N b g i m h T t m s i b
 t e N s N d n '- n h' A s i S K t h P p s y U l> S d M <-

l h e! m c T S r e h l n h>

A o h o! m c T S r e h l n h>

I se! m cTHoKSrenh>

mt0 AsMn mt l0Nd AeKskIemet ri Asi seMmi>

mHd AmK mtr0Ngi ArNb Amdi sijiNnb **yb** Amdi **ydb** whpresizgi
mrMd nnsi>

mt l0Ngi grmrgi lrib tozN-tozNb niyMsiZ Ad kIn seMb whpreZb
ArNbni hIn l0n> whpreZsiZ Add HeZnrib nTtrg Ub flib ArNb Addgi,
mA0Zdgi yeZdn AsigMb ArNb whpreZsiZ Asi mSL AhM HoKn SId0Kp yI>
mSoI siZ Addi <- (1) ArNb, (2) sijiNnb ydb, AmsZ (3) lNs-lNb sijiNnbs ydb
Asini>

ArNb whpreZ hIrg AS0In foZd0KniZlib wfM Ad cP-cn ShNb zMdb,
sfiKsnciZbsiZ Ad tPfM HoKpd tPt b Amdi AwTp lbsiZ Adbni> SdM <-

- * An cK cbni>
- * A cKt cbni>
- * An mb c fl>
- * STn toMbb A pl>
- * A cK cb mi>
- * syMn toMbb UtP HI>
- * msi A lIriKni>
- * msi toMbgi!
- * mhK cr? AsinciZb>

mHKt pirib whpreZsiZ Asid AwTp nTtrg AkIb Amdi soIdnmK
lre> mrM Asidgi mSoI siZ Asib ArNb whpreZni hInribni> 'An cK cbni'
hIb whpreZ Asid 'An cK cbni Adg mn tL cbni' hIb kMpUNd AoIb whpreZ
Asid yUrib siMpL AoIb whpreZsiZ Asin foZd0Klib ArH Add yeZl bdi
AcMb whpreZni Adg 'An cKtb cbni' hIbgi ArHd sijiNnrgdi soIdnmKki
lLe> mt0 AsMn kbitd sijiNnbgi mA0Z Addgi yeZl bdi ArNb whpreZ ky
Ams AcMb AoIn l0b ygni> mtZ Asid di AsigMb ArHgi cyetnb nTtrg
kbit gi mA0Zd yeZdn Swldgi cMb mA0Zd l0b yb ArHdd lIdn nnbni> "A cKt
cbni' hIb whpreZ Asi ArNbni> mrMdi msid 'A' hIb whpreZ Asigi sbjeKT
AoIrib wh Asid nominetiP keski mrkr Am yUfM HoKpd yUdre> 'An mb c
fl' hIbsidn 'c' hIb lNstrmeNT Asid lNstrmeNtL kes mrkr Ad tPtbdgi
mpZ fdb whpreZ Am AoIre> AsMn 'A cK cb mi>' hIb whpreZ Asidn
fInITvrb nTtrg whpreZ Add yUfM HoKpd nTtn yUdb ydrb vrb Adgi ArH

Ad foZdoKp zMb '-ni' hIb **kopyl** hIn Snb prtikL Ad yUdbn mrM AoIdn whpreZ AsimK ArH HoKtb whpreZ Am AoI re> mt0 ASMn 'msi A lI riKni' Amdi 'mhK cr' hIb whpreZsiZ Asidn mHsiTn 'A' hIbsigi mtZd yUfM HoKp '-gi' hIb sfiKs Ad yUdb; Adg 'c' hIb rT Asidn INterogetiP sfiKs Ad yUdb ydb nomine lIjr '-b' hIbd yUdn rTt '-r' hIb INterogetiP sfiKs Asit PsiNbdgi ArH HoKtb ArNb whpreZsiZ AoI re> AsigMb mSLgi whpreZb ArNb whpreZ hIn Sn>

sijiNnb ydb whpreZ hIrg ASoIn grmrgi niyM kIdrbs ArH HoKtb, whpreZsiZ Adb Sn> SdM <-

- * hwlmt0Nn sN cre>
- * UpMbi Ad kNn ceLIi>
- * sLn UroKH0Z ILIi>
- * hwlmt0Nn hwlHrK cre>
- * sMn koMI cre>

AsigMb mSLgi whpreZsiZ Asi grmrgi niyM Ad kIjdrbs sijiNnb ydb whpreZ AoI re> mrMdi mSoIn foZdoKlib Ad tb ydb, AoIH0Kp ydb wfM zKt AoI re>

INs-INb sijiNnbs ydb whpreZ hIrg wrd-A0rdrd kIb Amdi AoNn-tnb AefiKssiZ tPsiNb Ub fb whpreZsiZ Adb Sn> SdM <-

- * koIbni A IM>
- * ctP fI Amn mb An>
- * Amn ctP mn Ab fI>
- * An cKni cb>
- * Am AzZ Azlb I>
- * cUbn yMgi I>
- * ImZn cUbd I>

AsigMb whpreZsiZ Asib INs INb sijiNnbs ydb whpreZni hIn lIn>

nnb

- 1> mt loNgi whpreZsiZ Asi mSolgi strKcr hIbdi mSold yUrib frej
Amdi klojsiZ Adgi mtZINn mSL ky HoKn SIdoKpge? mSolgi mrMd
SdM pidn nnrKU>
- 2> mt loNgi kMpleKs seNteNsk kMpUND seNteNsk SeNnb SdMn sigTtn
UTI>
- 3> mt loNgi whpreZsiZ Asi mSoln foZdoKlib nTtrg ShNlibsiZ Adgi
mtZINn mSL ky HoKn SIdoKp ybge> mSol siZ Ad kri krino?
- 4> mt loNd mt krMn negetiP, IMpretiP, INterogetiP seMbge?
- 5> mt loNgi negetiP / IMpretiP / INterogetiP sfiKssiZ Ad kri krino?
- 6> krM krMb mfMd '-te ~ -de' Asi '-t ~ -d' AoNSibge? SdMn sigTtn I rKU>
- 7> mt loNgi INterogetiP / negetiPki mrMd I rKU>
- 8> mt loNgi AoPtetiPsiZ Asid IMpretiP yUI hIbsi kdl fUb cMbge?
nnrKU>
- 9> mt loNgi ArNb whpreZsiZ Asi mSL ky HoKn SIdoKpge? kri krino?
- 10> mt loNgi sijiNnb ydb whpreZsiZgi SdM pidn I rKU>
- 11> mt loNgi INs-INb sijiNnbs ydb whpreZsiZ SdM pidn UTI>

AhMsb srK

t rNslesN

t rNslesN hIbsidi lōN Amdgi AtōPp lōN Amd yribmS hNngi Albn ShNb pMlib ArH Ad lkl-kIhNdn Anōb lōN Adgi cTnbi niyMgi mSd hNdōKpdni> Adndi t rNslesN hIbsid **hNdōKkdōrib lōN** hIbdi “sors leZglj” hIb Amg **hNdōKlib lōN** hIbdi “trgeT leZglj” hIb Amg Ani Asidi solIdnmKki cdb ydre> fn yMn hōTndns lōN Amdgi AtōPp lōN Amd cp-cn hNdōKp hIbsidi kdōzds AōIHōKte> Adn mHKt pNSib hNngi Albn fōZdōKp pMlib Ad kIhNdb hIbsi sMn hIrbd cnb yeZb hIbdni> lōN Amgi whsiZ Adgi ArH Ad cpcn hNdōKtn HMIg hNdōKlib lōN Adgi niyMg cndrbdi md t rNslesN nTte> lIiski ‘hi l j A gd bōl’ hIbsi mt lōNd ‘mhK Aōl Am Afb AzZ’ hIn hNdōKtn HMIbdi msi t rNslesN nTte> Adb mt lōNgi cTnbi niyMgi mSd ‘mhK Afb AzZ Amni’ nTtrg ‘mhK Afb AzZni’ hIn hNdōKlibdi md t rNslesN Aōlre> mrM Asidgi t rNslesN hIbsi tōb trbdi t rNslesN tōgdōrib miAōl Ad lōNsiZ (sors AmsZ trgeT) Ad mNn Sdb yde> AdMnmK Aōldns yMn mpZ fb hIbdi hNngi ArH kIhNdb cp-cn t rNslesN hIbsidi kdōzds AōIHōKte Adb lōN Ani hIbdi sors leZglj (hNdōKkdōrib lōN) Amdi trgeT leZglj (hNdōKlib lōN) Ani Ad Sdn t rNslesN tōb hIbsi AōIHōKte> Adg tozN-tozNb mi Anin tōb t rNslesNs mNnrol>

t rNslesN hIbsi yMn lIb nTte> Adg sekeNdri sors hIbdi AtōPp nip Amn AtōPp lōN Amd t rNslesN tōrkpdgdi AmK AtōPp AhMsb lōN Amd hNdōKpdi md t rNslesNni hIn hIbgi mhTt hNdōKlib miAōl Adn ASb lōN Amd **neret** hIbdi mhKki Aōlb lōNd IHōKpni hIn hIb yI> mrMdi lōN Adb Sdb miAōl Adn mtō krMn mn hNdōKlib Adn hNngi Albgi ApMb Ad ShNb zMgni> t rNslesN hIbsi tōb mtMd yMn ceKsiNb drKr Aōl> krigMb msid solSib trbdi yMn mZniZz lni> SdM Aōln hIrbd korT Amd ‘y Ar A dM fL’ hIn miyM mmZd lklb pi hIbgi kes Am tōb mtMd ‘y Ar AeN AeKs triMli ANwlj prsN’ hIn hNdōKtn ArH pib trbdi kes Ad mZniZz lni> Adn t rNslesN hIbsi trl-trIn lōroldbni>

t rNslesN tōb mtMd kUb ydb wfM AhMSK l> mSōl siZ Addi - **fIdeliti**,

flyeNsi AmsZ **IligeNs** hIbsini> AroIbgi **IligeNs** hIbsidi mrAoIn
ceKsiNnbgini> mrMdi mHKt pNSib 'y Ar A dM fL' hIbsib 'y Ar AeN
AeKstriMli ANwIj prsN' hIn hNdokLib Add IligeNs hIbdi Ire> Adb
mdn INn tKpgi SdoZHib hIbdi AmZb Addi Ite> mHd, **flyeNsi** hIbsin seZn
cMn hNdoktn ShNbni> Adg **fideliti** hIbsi Snnb mAoZ Anid yeZb tI>
AhNbd, 'hNdokLib' Ad nTtb AtOpP At cnb Iribr hIbd HidokPni> SdM
AoIn hIrbd jrmN loNgi 'dMkof' hIbsi 'Apb mi', hIn kngMbn hNdokLe Adb
jrmN loNd 'Apb mi' hIbsidi 'Uklger' hIbsin ShLli> Adndi 'Apb mi' hIbsigdi
'Uklger mN' hIbsig heNn nKsiNnn Ure> Adn AhNbgi 'dMkof' hIbsin ShNb
yb ArHsi mt loNgi cnb yeZbd 'mH yUdb' hIbdi 'koK yUdb' hIbsign heNn
cnb hIbdi heNn nKsiNnn Ure> AsMn At-At krM-krMb cnb Iribge hIn
HidokPni> Anisb mAoZdn heNn IdiAometiK AoIb mSL SNdokPni> hIbdi 'koK
yUdb' nTtrg 'mH yUdb' hIbsi mt loNd sijiNnrbs msidgi 'p cb' hIbsin
heNn pMn mt loNd sijiNn> Adndi msin heNn cnb toIn sijiNnb mAoZ Ad
AoIri> sMn hIrbd mt loNgi 'HeKn Soln ceNb' hIbsi Ilist 'jig-jg kors'
hIn hNbgi mhTt 'di snekiZ kors' hIn trNsleT tIbdg AMhni>

trNslesN hIbsi yMn pK cUSrb hirM Amni> msigi toZN-toZNb mSL
kymKs I> Adb mSol siZ Ad mtZ Asid nndre> cMngi mteK AmSK hNdokPg
litreri teKs hIbdi poltri Amdi noveLnciZb hNdokpgs SeNn>

mrishb srK

1) presi rltiZ

presi hIbdi smri nTt rg jist nTt rg sbsteNs hIbdni> sMn hI rbd
msidi yMn ceKsiNn t siN-SomjiNdn mc AoIb mS SNgTlg SwIdgi yMdb whd,
ciH-nNH ltn smjiNdn lbgi mAoZ Adni> msigidmKtdi pirMlib wfM Adgi
mnZgi vb (wSL) hIbdi ArH Ad mpZ-fn, mmT-tn Sbgdrkr l> msi Slbtd
ciH-nNH yUdb, mpZ-fb, mc zKt-zIb, wreZ lb zMgni>

AcMb mAoZd wh SNgTtn lb hbgi mtZINn presi Amgi fjb Ad lePn>
Adg presi hIbsi sZHLloldbni hIn mipM SdiZn hInrbs msigi AkKnbd
lte> Adb cTnbi AoIn pirMlib wreZ MteK Adgi srK AhM HoKpgi Amdgi
heNndi sZHLloldbni> presi hIbsi yMn kNn> msin pb mtMd pKniZ-chLli>
mrMdi pKniZ-cn pirib wreZ mteK Ad pdrbdi presi lb hIbsi AoIHokte>
Amb AoI rbs Amb AoI rbs Afb presi Am lb trbdi mSgi wfM 5 (mz) Asi
soldn mZd HMb tl> mSol siZ Addi <-

- (k) Aekyrisi,
- (s) kleriti,
- (l) kMpliTnes,
- (m) kohiArNs, AmsZ
- (p) kNsIsnis Asini>

(k) **Aekyrisi** - hI rg Snribdi ArNb yUdb, soldb, hIbdni> sMn hI rbd
cP-cn tIbbni>

(s) **kleriti** - mc-SIn, myeK-seZn, cyeTnb ltn UTpb kleriti hIn Sn>

(l) **kMpliTnes** - msin hIribdi mceT-mceT nTtb, mpZ-fb, loInn mriK-
cMb AoI gdbni hIbni>

(m) **kohiArNs** - hIbsiddi lIn ShNb ygdb wh-wt sijiNnbg loInn mtZ-

cn sMjiNndn k0Ntinyti hIbdi mH-mnU nIn cThrKlib Ad kIhNdbni>

(p) **kNsI snis** - msin tKlibdi wh Sr tmK hIbdi wh msiZ yMdn sijiNnrg yMn teNnwSL Ad f0Zd0Kpbni>

mHKt pirib wfM mz Asi mZd HMIb mtZd presi Ad Ib mtMd mSgi mA0ZsiZ Asigi mtZINn cTHgni>

(1) pirMlib pesej nTtrg wreZ-mteK Ad yMn ceKsiNn mmT-tn pdn mdgi mnZgi I cel Ad Snnb hoTngni> SdrimS hNn-hNn pdn Snnb hoTngdbni>

(2) mmiZ Am s0Idn HoNgdbni>

(3) hNjN-hNjNn pdn mrA0Ib wh SdiZmK mSd II ciZgdbni>

(4) II ciZIb mtZd II ciZlib whsiZ Adn sMjiNnrg wSL Am HoKnB IKngdbni>

(5) AsMn leZsiNdn seMIb wreZ Ad AmK hNn pdn kNnde hIn SNb mSd I0HoKkdbni>

(6) yribmS hNjiNhLI0Idbni AmsZ SdM pidn tKI0Idbni>

(7) nsgi wh sijiNndn Igni Adg hNnn pirMb pesejd yUb whsiZ sijiNndb ydbsiZ Ad nTtn Atdi sijiNnr0Idbni>

(8) teNs AmSKtd h0bdgi I0Ib fUb Igni>

(9) mtM pMnmKt INdI reKT Hrd prsN forMd Igni>

(10) mt0AsMn t0rb hIbdi kKH0K-kKsiN t0rg seMIb fUbd yMn sZIdi AmKk heNn teNsiNnb hoTngdbni>

mt0AsMn mHKt pirib mA0ZsiZ Asigi mSd presi hIbd Igni>

2) ciHi Ib

miA0Ibn mlg-mlg A0NsiNndn wri-wt l t0nbd w zZn> mtM Add mS0In
tozN-tozNb hirM kymKki mrMd zZn AmsZ mdd Ib mS0Igi wSL Ad f0Zd0Kn>
l l riK hb miA0I pMnmK ciHi Ib zMmi> mS0In AnKp Amdi ArPpd Ib mrP-
mpZ nTtrg mri-mtsiZd hlniZb w Am nTtrg tMniZb pU Am ShNb nTtrg
thNb pMIKp, Amdi krigMb HbK-Hn nTtrg At drkr l rKp kygi mrMd ldn
ShNbb **ciHi Ib** hln Sn> mt l0Nddi ciHi-Hb hlbsin ciHi Ib hlbsigi mHT
siNbgM t0l> mrMdi ciHi-Hb, hlbsid lbgi HbK Ads AdM sPciLli>

ciHi hlbsi mSL yMn yMmi> mSL SeNnbgi mtZINn mS0Igi lbgi mA0Zs
SeNn> Adb ciHi pMnmKt s0ldn yUdb ydb Srdi l> mS0IsiZ Addi <-

(1) **Ah0b** - msiddi ciHi Adb Hrib mi Adgi **lfM** hlbdi ciHi Adgi pUSM
pirKpd HZlgdb mfM Adg ciHi Ad lbgi t riSk lgni> Adb kngMbn ciHi Ad
Ib mtMd mi Adn l rib mfM Ad Hnbs hlbdi lnbs yUI> msidi AyMbn yeTHb
lpNd mSgi AsMn ln> SdM <-

209, Ist kiZsli, AprTmeNT n. 18

AN-Arb0r, micigN

Agst 14, 1989

(2) **fgd0ribd UTp IkISMnb nTtrg bybhr** - msiddi l rib mi Adg
fgd0rib mi Adggi mrKt ln b mri Amdi ciHi Adgi mtZINn tozNb mA0Z
sijiNngni> msidi Ah0bd HSib Adgi heK mSd A0l r0MHb nkNd AhNb Imld
Hgni> SdM <-

Sr lbZz0,

pbZ, AsinciZb

kn kngMbn **nZsijrb, IkISMnjrib** AsinciZb kymrMg l0lnn **lbz0**
hlbsi ltT-tTtn sijiNngdbni hlbsi HeZn> tseZbmKti msidi mt l0Ngi
cTnbidgidi Sr Hd0Kp mA0Zni> mt l0Nddi AyMbn ciHi Adb l rib mi Adgi
chigi mtZINn msi lePpi> krigMb l rib mi Adn chi hNb A0l rdbdi lbz0,

IbeMm, nTt rg fgdrib mi Adgi mmiZ lbs cTn> krigMb leZg AoIrrgn mrP
nTt rg mmiZ sijiNnb cTn> Adg Irib mi Addgi chi hNb AoIrbdi td, mMm,
Sr, nTt rg mSoIsiZ Asi mmiZ Add tPsiNdn sijiNnb HeZn> Adb msid Ah0Zb
Srdi Ire, loInn toZN-toZNb mfM mtMgi mtZINn Hd0K-HjiN t0nre>

(3) **wroL** - msidi ciHi hIribdni> ShNniZlib nTt rg foZdoKniZlib wfM
pMnmK Ad msid yUrgni> ciHi Ad Iribgi mrMs msini> loIrgenTt rg loIre
hIb ShNbs msid ShNgni>

(4) **Albg fgdribggi mri** - msid Albn fgdrib mi Add yeZb miTyeZ,
mrinciZb Ad UTli> msidi wroLgi mSd yeTHb nkNd In> SdM - nhKki, AdoMgi
nSr toN, AsinciZb>

(5) **ciHi Irib migi mmiZ (shi)** - msidi Albg fgdribggi mri hIbdgi
heK mSd In> SdM <-

AdoMgi,
mni IroM

(6) **HZfm** - msidi ciHi SU mHKt Hgdbni> msi yMn mrAoIb srK Amni>
ciHi Ad fn mriK cMn Idns HZgdb mfM Ad ILIb nTt rg pb HoKtrb, nTt rg
AoNn-tnSrbdi ciHi Ad fgdb mi Adn flroI> mrM Adn msidi yMn mriKcMn,
myeK seZn pb HoKn b tI> SdM <-

d: pi, si, HdM

profesr

mnipr ynivrsiti

IMfL - 795 003, mnipr>

mHKt ciHi lbgi mAoZgi mrMd nnSre> Asids nTtn ciHi hIbsi mSL
yMmi hIns pNSre> ciHisiZ Asi **sosiyel letrsiZ** hIbdi brtN tIbgMb,
mrP-mpZ, ImZ-mnZ, IciN-IpwnciZbd AcMb mAoZd Ib ciHi Amdi **bijines**
letrsiZ hIbdi IloN-I tiKki, Aofiski, HbKki Amdi At drSsTnciZb Hbd

sijiNnb ciHi hIn mpZ A0Ib kZIP Ani H0Kn SI0dKp yI> mSd t0zN-t0zNb
mSLgi ciHi Sr SdM A0In piri <-

(1) brtN tlb

(k) srijKt/srijKt frIItpM Imo srMm, sZ IroIseMb mS IkId Ibgi
mfMd noLIKn niZsiZjri> IKlib tZ 21/01/91 I flreNgi mzni pNb IrI nmiTki
AyK pZ 11 tb mtMd An nln sjb yM Ad sgjgdIri>

UpIKsy AsidmtM cn leZbirKtn prsdi fbirnbhIjri> pt rnmNtrN
kTcbgi AprD SibiK zKpigni niZj>

biniT
IroM kmr siZh
kwkHeL, IMfL

(2) ImZ-mnZgi A0Ib ciHi

(k)

436 plijeNtevile rod
briAklif menr
niU yorK 10510
jnAri 17, 1990

tmo -

A zrZ Ilin0Idgi hLIKle> hNdKti AS0I yMn cTIbnin migi myMd Ib
nzIgd b mNdbdgi jliS0Id I tre> AS0I loInmK AI hUst AdM Ire> vekiSnd
hNdK yMd H0KIKke hIdn bbds ciHi ISre> h0ZkoZ fUrg IKke> nhK An
IKtrib fUb IbirMm> H0Id0Kp Anlb pU I te> mtZd AmK IjrKke> zsigidi
mtZ Asid loIjrge>

nhKki nCL
nts

(s) mHKki ciHigi pUSM

419 kiZs rod
norH p0INT
hoZ koZ
jnAri 25, 1990

meme -

ngi jnAri 17ki ciHi fle> As hNdK vekeSnd yMd HoKke Snbni> fre A n
IKtribfUb zIdn IrMge> bbds A ciHi lge ns ISo>

mrindgi ciHi fbr? mhK Aask HdoKIMle> mhK hjiK yokohmd Ibni>
mgi IfMdi - 2-906 AoKrym heIM, 941-1 ft - kohok, yokohm - 222ni> mdi hNdK
vekeSnd HoKloI hIbni> HoIdoKp kris hInizI lte> mtZd AmK IrKIge>

nhKki
nbZ

(I) mcn mpd Ib ciHi

436 plijeNTvile rod
briArklif menr
niU yorK 10510
jnAri 16, 1990

bb,

A lInoIdgi heK hLIKpg ciHi Asi lrbni> hNdK vekeSnd yMd IKke
SLli> tmos Undb klre Adn hoZ-koZ fUrg IKke SLli> tmods hyeZ ciHi
ISige> mhK A IKtrib fUb lrmM hIge SLli mrMdi An mfM Add cTniZb mfM
Sr l> md mhKk loInn cTmiNnniZzi> kris HoIn hInizI ljde> loIjrge>

bbgi
ncnpi

(m) mrP Amd Ib ciHi

ciZzmS liw IMbi

IMfL

tZ 20/12/1990 I

mrP,

krM t0ri? nzoNd ciHi lge SNb yMn klrbni Adb HbK Sr ciNbdgi
nzoNd pU Hbsi Sr HeZSre> wr0gn> nn Az0Nd siNnrKp HbKsiZ Addi loIn
t0Srbni> Adg nhL nn pirKp lIriK Ad fbd rjeNn hrUddi AzKpni>
nSolgi Amdi ASolgi ImZ AnimKt An-AyeK lte> koNn AmK lRklge>
zsigidmKtdi Aswld sM loIsiLlge>

nhKki mrP

AswiN

(4) lloN ltiKki ciHi

pbliK bK stor

kKciZ bjr

mnipr

17/2/1991

menej r,

ynivrsiti bK stol

mnipr ynivrsiti keMps

kNcivr (IMfL)

Ibz0,

mSd pirib lIriKsiZ Asi lbirbdi yribmS Hn kpi 100/100 d HbirKU>
seL hNn pibgi drkr lrbdi prseL A0In beZKki Hrd HbirKlbs yl>

1> jenerel fUNdesN kors, mnipr ynivrsiti

2> kNci bK Aof poIMs, mnipr ynivrsiti

3> rimediyel mnipri, pi, si, HldM
8> Ae repid kors IN I lis si, je, dswni AeNd ti, si, dswni

AdoMgi
AkoIjM Ibotombi siZh
menejr

(s) mHKki ciHigi pUSM

ynivrsiti bK stoL
mnipr ynivrsiti keMps
kNcipr, IMfL - 795003
28/2/1991

menejr,
pbliK bK stor
kKciZ bjr, mnipr

Ibz0,

AdoMgi tZ 17/2/91 Igi Aordr Ad fjre> pi, si, HldMgi rimediyel mnipri
nTtn At I I riKsiZ Addi IU, bi, AI, kKciZ brNcki Hrd zsimK HjSrbni>
Adg HldMgi I I riKAds prestgi heK HorKpg Hj rKkni> fI-fde Amdi HrKSor
HrKknr hIbdgi pU AmTt ShNbiriKlbdi yMn nzIjgni>

AdoMgi
pi, Ibotombi siZh
menejr

(I) Aofiski ciHi

govrNmeNT Aof mnip r
direKtoreT Aof AeJkesN (Aes)
IMfL
tZ 10/3/1991

n: 11-6/di Aes/59/90
AeKjikytiP INjiniyr
meNteneNs divijN n:1
IleKtrisiti diprTmeNT
govrNmeNT Aof mnip r, IMfL

hirM - Anlb biLdiZd m piy hIb>

Ibz0,

ASolgi diprTmeNTki Anlb biLdiZ Am proMptt sbd h0jiki Iolre>
md cif ministrn cif-gesT Aolrg AeJkesN ministrn svpti Aolbirg tZ
30/3/1991 I HZj nmitki AyK pZ 9:30 tb mtMd sgjrgni> msid ASolgi skL
seKsN Asi h0ZjiLlgni> mrM Asin biLdiZ Asid yribmS Hn m pibinb hIjri>

AdoMgi
ti Alc bir siZh
direKt r Aof AeJkesN (Aes)

(m) HbKki drSst Hb

direKt r Aof AeJkesN (Aes),
govrNmeNT Aof mnip r,
IMfL>

hirM - A0j hPpinb hIjb>

IbZz0,

AdoMn AeL pi skLsiZgi Aoj Sr lIgni hIbgi mtZd 'mtMgi ykI roL' Sbrgi
febrAri tZ 19, 1991d foZdoKpirKp Ad HeZnj re> mdgi mtZINn nnI AhKs Aoj
Am Aoljge hIdn drSsT Asi Hjri> cNbidn Ab keNdideT Am AolhNbiy hIn
hIjri>

mSd Agi lsgI mrMd mroL pMnmK pijri>

1> miZ - l roM bNdn cn

2> Apokpgi miZ - sri l roM Az0 siZh

3> l fM - kwkHeL, lMfL weST, mnipr

4> chi - 21

5> np / npi - npi

6> yM pLIb / pNdrib - yM pNdrib

7> mhgi HK -

(k) mnipr bordki mSd 1987d Alc, As, AL, si, priS AhNb dibijNd
ps t0j>

(s) mnipr biswbidylygi mSd 1989d pri-ynivrsiti sINs, AhNb
dibijNd ps t0j>

(l) h0jiK lMfL klejd bi, Aes, si, sekeNd l yrd tMjri>

8> At-At - (k) INtr kolej Aese kMpitisNd Anisb mn fjSi>

(s) h0jiK h0jiKmK ciLdreNs hoMd kociZgi Aoj Aoljri>

cNbidn Az0Nd Aojgi fM AmTt pinbirbdi hInizZl l tn nz l jgni Amdi
mtM pMnmKt t0bimL kUjroI> AhK HbiniZb mfMd Hbibd ApTti l jde>

tZ 22/2/1991

AdoMgi
l roM bNdn cn
kwkHeL>

hPcrib ce-cZ <-

1> sr t ifikeT kpi - 5

2> mrKsiT kpi - 3

(p) sti nib

prINSipL,
rM IL pL hyr sekeNdri skL,
IMfL>

A0j IbZz0,

A0j IbZz0gi mfMd noLIKn hIj ri mrMdi AhK z rZ nmidZdgi k0K ciKtn
Ire> mrM Adn skL kb zMjroldire> A0jn cNbidn zsigi nmiT Asigi sti
pinbiy>

tZ 22/2/1991

A0jgi
lImyM kmr srMm
kIs XI (AeIveN)
roL n 6

3) kMpriheNsN

kMpriheNsN hIbsiddi wreZ mteK Am hNn piHoKIg mddgi wh kymK hdn st rsiZ Adgi cyeZ tlbni> kMpriheNsN tlb mtMd SjiNgdbsiZ Ad mSd piri> mSol siZ Addi <-

1> wreZ mteK Ad mNn pHoKIg mdgi cUrKp vb Ad SdKnB IKngni>

2> Sr heNn SjiNnbgidmK AmKk hNn Sr ceKsiNn pgni>

3> whsiZ Ad yMn ceKsiNn mmT tn Snb hoTngni> Adg wreZ mTeK Add yeZlg mdgi pUSM Ad lsg i loNd pinb hoTngni>

4> whpreZ mpM AoIn sijiNngdbni hIbdi mteK Srn pUSM piroIdbni>

5> whsiZgi ArH hIMb yUrbdi md nsgi loNd yribmS cnn pirMgdbni> ArH Ad tKpd SdM pibgi drkr lrbdi mds tlgdbni>

mSd wreZ mteK Am nnri <-

(k) mniprdi lsiZ-nZsiT fb, lHu ceNb AmsZ yMns sdb, yMns ldb mfMni> mfM Asid mSL-mS AyMb HbK tlb yI> Adn Asb mtMd tlnnb HbK kymrM l> Agi hobidi grdniZ hIbsini> At-At stM- SoMjiNb, peN freNdsip, lS-noZm lnciZbd Hwl yUjrbs Swldgi pMj bdi grdniZni>

wh <-

1> mnipZ krMb mfMno?

2> 'Asb mtM' hIbsin krino?

3> kri mrMdgi mgi hobidi grdniZni hIribno?

4> 'Hwl yUb' hIbsin krino?

pUSM <-

1> mnipr hIbsi k heNn lS ldb, ss sdb lHu ceNb mfMni>

2> 'Asb mtM' hIbsi 'AhZb mtMbni'>

3> mhKn hIri mddi msin **mhKki Swldgi pMjb** hobini>

4> 'Hwl yUb' hIbdi **'pKniZ cb' nTt rg 'pKniZ IPp'** hIbni>

(s) mrK Asid AhL Amn treLd coZHdn mni tMn lroldn csiNSi> mhKn zIhK hoTnrb mtZd mnib lMb fSi> Adb mhKs tUHbdi lePt ri> mni Ad hjiK lPsiNbdi ky tldre> mtM Asid cUbs mnig AhL Adggi mnK yore> yMn wn

h0Tndn I r Addgi cUbgI mteZn AhL Adg mnig nNH0rKle> Addgi mnid t0rbNd
pSTIKle>

mnI gyN t rMdre> I siZs yMn HKIMle> AhL Adn IeZ-A0TpnciZb kymrM
t0dn mnidgi I siZ I0H0Kle AmsZ mhKp swr h0LhLle>

wh <-

- 1> AhL Adn t reLd c0ZHrib krigino?
- 2> AhL Adg cUbgN kri kri t0Si?
- 3> 'gyN tdb' hIbsi krino?
- 4> mt0 krMn mni swr h0LhNSibge?

pUSM <-

- 1> mnin I siZd I rKnB Addgi IISTnnb AhL Adn I siZd c0ZHribni>
- 2> AhL Adg cUbgN mnib I rKnbdgi kLIg t0rbNd pSTIKSi>
- 3> 'gyN tdb' hIbsi mtZ Asiddi Asibg pZSK A0In Ibdbni>
- 4> AhL Adn IeZ-A0TpnciZb t0dn HKciNSib I siZsiZ Ad A0H0KhLIb
mtZd mnib swr h0LhNSi>

4) AeMplifikesN

AeMplifikesN hIbsidi presi rItiZgi AoNn-tnbni> msiddi whpreZ Am nTtrg AteNb wreZ mteK Amb cUH0KhNdn sNd0Kn Inb hoTnbni> msidi SdMnciZb pidn pKH0K-cUH0KhNbgi HbK tIbdni> msigidmKtdi mSgi mA0ZsiZ Asid cTHgni>

- 1> yMn mNn pdn pirMlib whpreZ nTtrg wreZ mteK Ad mmT tn Snb IKngni>
- 2> yMn mmT tn SIb mtZd md pKH0K-cUH0Knnb UpI kymrM hIbdi SdM, prMNciZbgi mteZ sijiNndn hoTngni>
- 3> pirMlib wfM nTtrg whpreZ Add yUb-yUdb Hidn hirM Adg mri-Inb mSdi pKH0K-cUH0KhNb Add sijiNnb yI>
- 4> pirMlib whpreZ nTtrg wreZ Addi AroIb mA0Z Adni hIn I0gni Adn md AoI rKn b hoTnbd cSibsiZ Adgi mrMd Innb hoTngni>
- 5> pirMlib whpreZ nTtrg wreZ mteK Ad pNH-pUr0gMb AoI r bdi md seZn sNd0Kn tKkdbni>
- 6> pKH0K-cUH0KhLlib Ads mpZfb wreZ Am AoI hNgdbni> hNngi wreZd yUb mrAoIb srK SdiZmKs yUhNgdbni>
- 7> ArN-AhI yUhLl0Idbni>

mSd SdM Ani piri>

(k) liNs sidb css teKtnb>

msigi ArHdi krigMb Am AmKt t0bd mddgi fb yb kNnbmS I0h0nb hoTnb hIbni> IMbid liN Am HeZnre> STt c Amdi pIri> liN Ad hTnb hoTnbd liN Adn sibg loInn c Ads teKSib trbdi c AdmZjre> mt0 ASMn IMbi Am seMbd U-w ky yNdb yddn yLIe> Agi IH0di IMbi seMbdni hIdn U-w yLlib myM Ad hNd0Ktn HnMIbdi md liN hTp loIbg csd hNd0KpgMbni Adn liNs sib css teKtnb AoI hNge hI r bdi U-wsiZ Ad fjn I0siNdn HMjiLIg mdb kNnb mA0Zd sijiNnr bdi kNnb Ad Ani HoKn fb zMIe> msib liNs sidb css teKtnb hIbni>

(s) 'grdniZ' hIbsi yMn nZzeb h0bi Amni> msin kNnbs pi> hKcZ sjeL mSL Am AoIbt nTtn kHeNdgi Ib zMh0db mtMd nTtrg fdrb mtMd

heKtn sijiNnb yI>

msin hIribdi grdniZ hIbsigi mrMdni> msi hobi AoIn tlbgi mAoZni
mrMdi msi hKcZ sjeL mSL Amni hIri> tseZbmKti hKcZ sjeL mSL Amsni>
cMmi yeNsZ npisiZ Asi mk fNn fjn hlrKpd yeZbd pKniZ hniZz Ini Adg
Swldgi heNn nZlbdI Isn Hjb poT Ad niZHijn hlrKpd yeZbdni> grdniZ
Asigi kNnb Amn krigMb SdoZ cdbdgi kHeL kb zMdb mtMdd nTtn At mtMds
mSL mHeL AoIn cniZIKp mtMd heKpd zIrib mnmsiZsiZ Ad HoZdn cb yI>
hIjiKki mtMd bNdnciZb toIn tlbsiddi msigi kNnb Asi AmKks heZgTle>
zMdbgi wni heKpd zIribsiZ HoZdn cb hIbsidi hKcZd yMn kNnb jTni>

5) Aese (nibND)

Aese hIbdi hoTnb hIbni> pirib topiK hIbdi wrM Amgi mrMd mriK cMn Inb hoTnb Aese hIbdi **nibND** hIbni> msid Igdrib miAol Adn pirib wfM Adgi AseZb mAoZ Ad mH-mnU nIn mriK cMn, wh-wt mt cn sijiNndn IHoKIKpdni> nibND Am Ib mtMd tZkK AhMmKki mrMd Sdb yde> mddi - whldoK, nnrib wfM, Amdi wroIsiN Asini>

whldoK - whldoK hIbsi yMn mrAolb srK Amni> Aese Ad pniZb poKhNb nTtrg pniZhNdb poKhNb hIbsi msigi mS poLli> whldoK htrbdi tniZb poKtbgMn msi htrbdi Aese Adb pniZdb poKI> whldoK hIbsi mrM Asidgi yMn sZn Inde Amdi yMn teNn-teNns lolSiNnde>

nnrib wfM - msin Aese Amgi Swldgi mrAolb srKni> msid Irib wfM Adgi mrMd yUb ybmS mriK-cMn, ciTH-nNH I tn lbgi drKr I> msib nibND Adgi msKni hIn In>

wroIsiN - msid Aese Adn tKlib nTtrg UTlib Adgi mrMd In> msidi yMn sZn Inde>

Aese nTtrg nibND hIbsi mSL mri HoKn SIldoKI> mddi <-

- (k) diskriPtiP,
- (s) neretiP,
- (l) rifleKtiP,
- (m) Imejintip, Asini>

mSolgi mrMd yMn sMn mSd Srd piri <-

(k) diskriPtiP - msidi mi, poT, mfM, s, z, pMbi, yM, AsinciZb kymrMb Hdn Ib Aese (nibND) mSL Adni> sMn hIrbf fjb wh-wt sijiNndn AseZb sKtM Am sgTtn UTpbni>

(s) neretiP - krigMb HldoK Amgi mrMd Ib Aese (nibND) mSL Adni>
sNn-SoTnb, IMkoIb, STn-cnb, SdoZ-Hib HoKpnciZbgi mrMd sgTtn pU tMdn
Ibdni> sMn hI rbd priSdynivrsitigi INspeKsN tiM IKpd HoKlib HldoKsiZ
Adgi mrMd Irbdi mdb neretiPni hIn Ingni>

(l) rifleKtiP - msidi AebstreK AoIb hirM hIbdi hebiT (hnbi), mgN
Amdi smjgi mrMd nndn Ibdni> mHKt pNSib priSd INspeKsN tiMn IKpd
HoKSib kMm (HldoK) Adgi mrMd Ibdni neretiPni Adb priSdgi tIrib mAoZsiZ
Adgi mrMd Irbdi md rifleKtip Aese AoIre>

(m) ImejintiP - wSLn sdn hIbdi fiKsNgi mAoZd Ib Aesesizb
ImejintiP Aese hIn Sn> msiddi Irib mi Adn IribwfM, HldoK, HbK Ad AmKts
yUSidri nTtrg tI Sidri nTtrg AoI Sidri> mdgi mrMd wSLn sjiNdn Ib
Adbni> 'An cif minist r AoI rMIbdi', 'An niZH AoI rMIbdi' hIbnciZb bisysiz
kygi mrMd wSLn IMsiNdn Ib Aese (nibND) Adb ImejintiP Aese hIn Sn>

n nb

mSd pirib hirMsiZ Asigi mrMd nsgi wh wt sjiNdn nibND Iy <-

- (1) sL>
- (2) I siZd tb>
- (3) Agi hobi>
- (4) mht m gNDi>
- (5) nSoIgi klejd I IriK tMbibi mAoZ>
- (6) priSd nTtb UpI sjiNnb HiZnb pMb>
- (7) An mNt ri AoI rMIbdi>
- (8) ngi pNsigi SwIdgi nz Ib HldoK>
- (9) telivijNgi kNnb Amdi fTtbsiZ>
- (10) bigyNn pib Afb Amdi fTtbsiZ>
- (11) mniprgi smjd npigi fivM>

yeZsiNbd kNngdb lIriKsiZ

- 1> brbr, si, AeL - di stori Aof leZglj -
l, AeL, bi, Aes,
- 2> bloK, bi AeNd,
jrj AeL, t regr - AUTI INs Aof liZglstiks
AeNI lsis-AoriyeNtL bKsriPrINT, nI diLIi>
- 3> bIMfiL, AeL - leZglj - motiLL bnrSids, nI diLIi>
- 4> glisN, AlC, Ae,
jniyr - INtrOdKsN t diskriPtIP liZglstiks
- AOKsford AeNd AI, bi, AlC
- 5> hokeT, si, Aef - Ae kors IN mOrdN liZglstiks
- AOKsford AeNd AI, bi, AlC
- 6> lZgkr, Ar, dbliy - fNdmeNtLs Aof liZglstik
AenI lsis - hrTkOrT, bres AeNd jownowiK,
nyyOrK>
- 7> lehmN, dbliy, pi - diskriPtIP liZglstiks AeNd INtrdKsN -
reNdM hUs>
- 8> nId, l, Ae - morfoloji, Ae diskriPtIP AnI lsis Aof wrds
- AN Arbr, micigN>
- 9> pIK, ke, AeL - toN leZgljes - AN Arbr, micigN>

10> robiNs, Ar, Alc - jenreL liZgIstiKs, AeN INtrodktri srve,
loZmeNs>

11> HidM, pi, si - Ae grmtikeL sKec Aof mt loN,
pi, Alc, di, disr tesN

12> wrDU, Ar - INtrodkSN t liZgIstiKs, meKgrohiLs>
